Science STAAR Preps

5th Grade

CONTENTS:

Pedagogical Approach

45 STAAR Preparatory Spring Daily Practice Sheets

SOLUTIONS to Practice Sheets – Quick Answer Key of all sheets and Annotated Key of each Practice Sheet

5th Grade Science STAAR Preparatory Program

Teacher Recommended Guidelines

(Allows the students to practice and master 5th grade science concepts)

- The 45 practice sheets are designed to be run daily beginning 9 weeks prior to the 5th grade science STAAR examination. It is highly recommended the teacher check the student's work on each practice sheet by walking around the classroom as students are completing the questions and placing a check by each correct response. Of course, the practice sheets are much more effective if the students are held accountable for the information on each page. Finally, it is also recommended that students use privacy folders if they sit at group tables to prevent the students from viewing each other's work. Early finishers may read quietly or engage in a task not to distract other students.
- The first two practice sheets (sheets 1 and 2/sheets 3 and 4) are intended to be repetitive duplicates. The students should realize they are required to remember and retain the material throughout the program. The teacher may stress the importance of 'knowing' the material. As the teacher is reviewing and checking student work each day throughout the 45 practice sheets, she/he should note any questions that students answer incorrectly and those concepts should be quickly reviewed on subsequent days until mastered. It is recommended students turn their practice sheet over (for example) to the blank side and the teacher may quickly quiz students on those specific areas where students struggled. The teacher should monitor student answers during daily checking to identify incorrect responses and especially focus on specific students that are struggling. Hence, during the mini reteach sessions each day, these students are held accountable for understanding and all science concepts are mastered.
- Each practice sheet should take approximately 15 to 20 minutes to complete, and approximately 5 to 7 minutes each day for a review of previously covered material, as needed.
- Finally, there is a quick answer key as well as an annotated solution key to assist the teacher in efficient use of these practice sheets.

| Science Prep #1/2 1. oil (petroleum), coal, natural gas 2. organisms that lived long ago 3. millions of years 4. B 5. they pollute (contaminate) the air 6. C 7. true 8. inexhaustible resources 9. renewable resources 10. non ranguable resources | Science Prep #3/4 1. wind, water, ice, tree/plant roots 2. erosion 3. we would have nothing to eat 4. B 5. these energy sources don't pollute the environment—they are "clean" energy 6. C 7. the rock is weathered by waves and wind, then erosion takes the send | Science Prep #5 1. water, wind, ice, plant/tree roots 2. oil (petroleum), coal, natural gas 3. they are non-renewable, they pollute the air and water 4. B 5. these energy sources don't pollute the environment—they are "clean" energy 6. C 7. the rock is weathered by wayse and |
|--|--|---|
| | away 8. 100° Celsius 9. 0° Celsius 10. 100° Celsius | wind, then erosion takes the sand away 8. 100°C 9. 0°C 10. D |
| Science Prep #61. C2. Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus, Neptune3. Mercury4. Neptune5. B6. an organism dies in the sand, more sediment covers the organism, and the sediment compacts over millions of years7. fire needs oxygen to burn8. $1.$ B $4.$ E $5.$ D | Science Prep #71. B2. Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus, Neptune3. Mercury4. Neptune5. C6. an organism dies in the sand, more sediment covers the organism, and the sediment compacts over millions of years7. B8. fire needs oxygen to burn9. $1. E$ $2. A$ $3. C$ | Science Prep #8 1. B 2. C 3. True 4. 100°C, 95°C, 82°C, 45°C, 23°C, 14°C, 3°C 5. D 6. B 7. C 8. A 9. C 10. A) 1 day, or 24 hours B) 4 weeks C) 1 year D) 12 revolutions |
| Science Prep #9 1. A 2. A 3. wind and sun 4. B 5. B 6. D 7. A 8. A 9. A) 1 day, or 24 hours B) 4 weeks C) 1 year D) 12 revolutions 10. A | Science Prep #10 1. D 2. C 3. non-renewable resources 4. C 5. B 6. D 7. C 8. B 9. A) 1 month, or 4 weeks B) 1 day, or 24 hours C) 1 year, or 365 ¼ days D) 12 revolutions 10. suspension | <u>Science Prep #11</u> 1. C 2. C 3. life-water ; earth-heat 4. A 5. B 6. C 7. A 8. C 9. A 10. B |

| Science Prep #12 | Science Prep #13 | Science Prep #14 |
|--------------------------------------|-----------------------------------|-----------------------------------|
| 1 A | 1 A | 1 A |
| 2 1 | 2 B | 2 C |
| 2. mater algorithms at the of Easth | 2.0 | 2.0 |
| 5. water-electricity; study of Earth | 5. U | 5.U |
| 4. A | 4. В | 4. В |
| 5. B | 5. C | 5. C |
| 6. C | 6. B | 6. B |
| 7. A | - $ -$ | |
| 8 B | 7. B | 7. B $(E) \otimes \xi S $ |
| 9 C | | |
| 10 C | | |
| 10. C | $[8. B \ (M) \ (E) \ \xi \ S \]$ | 8. B $(M) \in \{\xi, \xi\}$ |
| | 7~~~ | |
| | 9. B | 9. C |
| | 10. D | 10. D |
| Saianaa Duan #15 | Sainaa Duan #16 | Saianaa Duan #17 |
| <u>Science 1 rep #15</u> | Science I rep #10 | Science I rep #17 |
| 1. C | 1. A | 1. D |
| 2. A | 2. A | 2. C |
| 3. B | 3. B | 3. D |
| 4. C | 4. A | 4. A |
| 5. D | 5. A | 5. A |
| 6 C | 6 B | 6 B |
| | 7 B | |
| 7. D | 7. D | 7. D |
| 8. B | 8. D | 8. D |
| 9. rivers/lakes and groundwater | 9. rivers/lakes, groundwater | |
| Science Pren #18 | Science Pren #19 | Science Pren #20 |
| 1 R | | |
| 1. D | | 1.0 |
| 2. D | 2. A | 2. D |
| 3. A | 3. C | 3. C |
| 4. D | 4. D | 4. D |
| 5. C | 5. C | 5. B |
| 6. C | 6. D | 6. D |
| 7. C | 7. C | 7. B |
| 8. D | 8. B | 8. B |
| 9 core mantle crust | 9 mantle : crust | 9 crust : core |
| 7. 0010, manulo, 01051 | 7. manue, erust | 10 P |
| C · D #21 | G · D #22 | |
| Science Prep #21 | Science Prep #22 | Science Prep #23 |
| 1. C | 1. C | 1. C |
| 2. A | 2. water and nutrients (minerals) | 2. water and nutrients (minerals) |
| 3. C | 3. B | 3. B |
| 4 B | 4 B | 4 D |
| 5 B | 5 D | 5 D |
| | | |
| | 0. B | 0. B |
| 7. C | 7. C | 7. A |
| 8. C | 8. B | 8. D |
| 9. A | 9. C | 9. C |
| | 10. the moon | 10. B |
| | | |

| F | | - | | | | | |
|-----------------------------------|--------------------|----------------------------------|----------------------|------------------|-----------------------|-----------------------|-----------------|
| Science Prep #2 | 4 | Sc | ience Prep #2 | 5 | Sc | ience Prep #2 | <u>6</u> |
| 1. C | _ | 1.0 | | | | \bigcirc | LWZ |
| 2. water and nutrients (minerals) | | 2. change of light on the moon's | | 1.1 | D (E)(M) < | s ś | |
| 3. B | | surface | | | \bigcirc \bigcirc | Swi | |
| 4. B | | 3.1 | 3 | | 2.0 | change of light on | the moon's |
| 5. D | | 4.1 | 3 | | sur | surface | |
| 6 B | | 5 1 |) | | 3 | | |
| 0. D 7 C | | 6 | 4 | | 3. A 4. B | | |
| 7. C 8 B | | 7 1 | 2 | | 4. D | | |
| 0. D 0. C | | 8 1 | 2 | | 6 | A | |
| 10 the moon | | | 2 | | 0. A 7 B | | |
| TO, the moon | | 10 | | | /. D 9 D | | |
| | | 10. | D | | 0.1 | ۵ ۸ | |
| | | | | | 9.1 | A C | |
| ~ | | ~ | | | 10. | | 2 |
| Science Prep #2 | <u>7</u> | <u>Sc</u> | <u>ience Prep #2</u> | 8 | <u>Sc</u> | <u>ience Prep #2</u> | <u>9</u> |
| 1. B | | | \sim | JMY | 1. 4 | A | |
| 2. A. sunlight/ | B. | 1. | A (M)(E) | ξs ξ | 2. | A. sunlight/ | В. |
| radiation | evaporation | | | w | | radiation | evaporation |
| C. | D. | 2.0 | hange of light on | the moon's | | C. | D. |
| condensation | precipitation | sur | face | | | condensation | precipitation |
| E runoff | <u> </u> | 3. | 4 | | | E runoff | F |
| 3 C |] | 4.1 |) | | 30 | | 1 |
| 4 C | | 5.1 | 3 | | 4 | | |
| 5 physical change | | 6 | 4 | | 5 1 | ohysical change | |
| 6 physical change | | 7 | 4 | | 6 1 | hysical change | |
| 7 Δ | | 8 1 | 2 | | | | |
| 8 B | | 9 B | | 8 1 | 2 | | |
| | | 10 | Δ | | 0.1 | | |
| 10 A | | 10. | 11 | | 10 | | |
| 10. A | | | | | 10. | D hydroalaatria ny | aloan wind on |
| 11. Willa, Solai, Diola | ei, ilyuloelectiic | | | | | nyuloelectric, nu | ciear, wind, or |
| | 0 | G | · D //2 | 1 | 501 | | 2 |
| Science Prep #3 | <u>U</u> | <u>Sc</u> | ience Prep #3 | <u>1</u> | <u>Sc</u> | ience Prep #3 | 2 |
| 1. D | | 1. | С | | 1. | 1. sharp teeth | 2. sharp |
| 2. A. | В. | 2. | A. wind | В. | | | claws |
| precipitation | weathering | | | compaction | | 3. built for | 4. eyes on |
| C. | D. | | C. | D. | | speed | front of head |
| erosion | compaction | | erosion | weathering | 2.0 | only change 1 thin | g |
| E. wind | | | E. precipitation | | 3.0 | C | - |
| | - | | | _ | 4. 0 | C | |
| 3. 1. igneous rock | 2. metamorphic | 3. | 1. sedimentarv | 2. igneous | 5.1 | D | |
| | rock | | rock | rock | 6. 4 | 4 | |
| 3. sedimentary | J | | 3. metamorphic | | 7.0 | С | |
| rock | | | rock | | 8.1 | В | |
| 4 B |] | 4 (| 7 | | 9.1 | D | |
| 5 Δ | | 5 1 | 2 | | 10. | fruit drops on the | ground and the |
| 6 metamorphic rock | | 5. D 6. matamarphia roak | | see | ds end up in the so | oil: birds eat the | |
| 7 sedimentary rock | | 6. metamorphic rock | | wh | ole fruit, and drop | the seeds | |
| 8 R | | 7. sedimentary rock | | | in and, and alop | | |
| 0. D 0 heat and electricity | | o. Irue | | | | | |
| 7. neat and electricity | | 9. 1- the rest are left constant | | | | | |
| 10. metals, water, all, numans | | 10. neat and electricity | | | | | |
| 11. rubber, plastic, W | oou, porceiain, | 11. | metais, water, air | , numans | | | |
| giass, wood, cloth | | 12. | giass, rubber, pla | suc, wood, cloth | 1 | | |

| ~ | | | | a |
|--------------|----------------------|--------------------|-------------------------|---------------------------------|
| <u>Sci</u> | ence Prep #3. | 3 | <u>Science Prep #34</u> | <u>Science Prep #35</u> |
| 1. | 1. sharp teeth | 2. sharp | 1. D | 1. A |
| | • | claws | 2. I | 2. H |
| | 3. built for | 4, eves on | 3. A | 3. C |
| | speed | front of head | 4. C | 4. D |
| 2 0 | ne thing is change | ed | 5 K | 5 K |
| 2.0 2 D | | .u | 6 D | 6 D |
| J. D 4 F |) | | 7 I | 0. D 7 K |
| 4. L |) | | 7.5 | 7. K |
| 5. L |) | | | |
| 6. B | | | | |
| 7. C | 2 | | | |
| 8. I | | | | |
| 9. C | | | | |
| 10. | fruit drops on the | ground and the | | |
| seed | ds end up in the so | oil; birds eat the | | |
| who | ole fruit, and drop | the seeds | | |
| 11. | thermal and radia | nt energy | | |
| Sci | onco Pron #3 | 6 | Science Pron #37 | Science Pron #38 |
| | <u>ence i rep #5</u> | <u> </u> | 1 D | <u>1 C</u> |
| 1. B |) | | | |
| 2. J | | | 2. H | 2. J |
| 3. C | | | 3. C | 3. A |
| 4. C | 2 | | 4. C | 4. D |
| 5. K | | | 5. K | 5. I |
| 6. A | 1 | | 6. A | 6. H |
| 7. A | L | | 7. K | 7. B |
| 8. J | | | 8. D | 8. black fur and brown eyes |
| 9. e | ast; west | | | |
| Sci | ience Pren #3 | 9 | Science Pren #40 | Science Pren #41 |
| 1 B | <u>ence 110p no.</u> | <u></u> | | |
| 1. L 2 I | , | | 1.R | 2 the electrons will not flow |
| 2.1 2 D | | | 2. K 2 D | 2. The electrons will not now |
| J. D | | | | 5.1 |
| 4. B |) | | 4. K | 4. A 5. V |
| 5.1 | | | 5. B | 5. K |
| 6. B | 5 | | 6. B | 6. B |
| 7. Ľ |) | | 7. False | 7. detach the wires, no current |
| 8. n | octurnal eyesight | | 8. True | 8. B |
| | | | | 9. True |
| | | | | 10. True |
| Sci | ience Pren #4 | 2 | Science Pren #43 | Science Pren #44 |
| 1 0 | | | 1 D | 1 A |
| 2 0 | 1 | | 2 C | 2 1 |
| | | | 2. C 2 U | 2.5 |
| Э. Г. 4 Г | 1 | | | |
| 4. L |) | | 4. U | 4. J |
| 5.1 | | | 5.1 6 D | 5.0 |
| 6. B | 5 | | б. В | 0.1 |
| | | | | 7. B |

| <u>Science Prep #45</u> | <u>Science Prep #</u> | <u>Science Prep #</u> |
|---|---|---|
| 1. B | 1. | 1. |
| 2. K | 2. | 2. |
| 3. C | 3. | 3. |
| 4. K | 4. | 4. |
| 5. B | 5. | 5. |
| | 6. | 6. |
| | 7. | 7. |
| | 8. | 8. |
| | 9. | 9. |
| | 10. | 10. |
| | | |
| Science Prep # | Science Prep # | Science Prep # |
| Science Prep # | Science Prep # 1. | <u>Science Prep #</u> 1. |
| Science Prep # 1. 2. | <u>Science Prep #</u> 1. 2. | Science Prep # 1. 2. |
| Science Prep # 1. 2. 3. | Science Prep # 1. 2. 3. | Science Prep # 1. 2. 3. |
| Science Prep # 1. 2. 3. 4. | Science Prep # 1. 2. 3. 4. | <u>Science Prep #</u> 1. 2. 3. 4. |
| Science Prep # 1. 2. 3. 4. 5. | <u>Science Prep #</u> 1. 2. 3. 4. 5. | Science Prep # 1. 2. 3. 4. 5. |
| Science Prep # 1. 2. 3. 4. 5. 6. | Science Prep # 1. 2. 3. 4. 5. 6. | Science Prep # 1. 2. 3. 4. 5. 6. |
| <u>Science Prep #</u> 1. 2. 3. 4. 5. 6. 7. | Science Prep # 1. 2. 3. 4. 5. 6. 7. | Science Prep # 1. 2. 3. 4. 5. 6. 7. |
| <u>Science Prep #</u> 1. 2. 3. 4. 5. 6. 7. 8. | Science Prep # 1. 2. 3. 4. 5. 6. 7. 8. | <u>Science Prep #</u> 1. 2. 3. 4. 5. 6. 7. 8. |
| <u>Science Prep #</u> 1. 2. 3. 4. 5. 6. 7. 8. 9. | Science Prep # 1. 2. 3. 4. 5. 6. 7. 8. 9. | Science Prep # 1. 2. 3. 4. 5. 6. 7. 8. 9. |

| 5 th Grade Science Spring | Review Warm-Up Number 1 |
|--|--|
| (8 to 12 minutes, maximum) | Name: |
| 1.) Name the three types of <u>fossil fuels</u> : | |
| 2.) Where do fossil fuels come from (wh | nat were they made of)? |
| 3.) How long (time) did it take fossil fue | els to form? |
| 4.) Fossil Fuels are which type of <u>resour</u> | rce? |
| a.) renewable resource | c.) inexhaustible resource |
| b.) nonrenewable resource | d.) none of the above |
| 5.) We use fossil fuels for energy to run schools. What is the problem when | our cars and produce electricity for our homes and we use fossil fuels like coal, oil and natural gas? |
| 6.) <u>Fossils</u> are most likely found in what | t type of rock? |
| a.) igneous rock | c.) sedimentary rock |
| b.) metamorphic rock | d.) a nice, big rock |
| 7.) A sedimentary rock can change over As a matter of fact, the <u>rock cycle</u> m other type of rock. Are these statem | r time into a metamorphic or an igneous rock. eans that any type of rock can change in to any eents true or false? |
| On Questions 8-10 - USE: inexhaustible | e resource, nonrenewable resource, renewable resourc |
| 8.) The sun and wind are what type of r | esources? |
| 9.) Soil, grass, animals and trees are wh | nat type of resources? |
| 10.) Gold, fossil fuels, aluminum and sil | lver are what type of resources? |

| 5 th Grade Science Spring | Review Warm-Up Number 2 |
|--|--|
| (8 to 12 minutes, maximum) | Name: |
| 1.) Name the three types of <u>fossil fuels</u> : | |
| 2.) Where do fossil fuels come from (what | at were they made of)? |
| 3.) How long (time) did it take fossil fuel | s to form? |
| 4.) Fossil Fuels are which type of <u>resource</u> | <u>ce</u> ? |
| a.) renewable resource | c.) inexhaustible resource |
| b.) nonrenewable resource | d.) none of the above |
| 5.) We use fossil fuels for energy to run of schools. What is the problem when w | our cars and produce electricity for our homes and we use fossil fuels like coal, oil and natural gas? |
| 6.) <u>Fossils</u> are most likely found in what | type of rock? |
| a.) igneous rock | c.) sedimentary rock |
| b.) metamorphic rock | d.) a nice, big rock |
| 7.) A sedimentary rock can change over As a matter of fact, the <u>rock cycle</u> me other type of rock. Are these stateme | time into a metamorphic or an igneous rock. ans that any type of rock can change in to any ents true or false? |
| <u>On Questions 8-10</u> - USE: inexhaustible | resource, nonrenewable resource, renewable resource |
| 8.) The sun and wind are what type of re | esources? |
| 9.) Soil, grass, animals and trees are what | at type of resources? |
| 10.) Gold, fossil fuels, aluminum and silv | ver are what type of resources? |

| 5 th Grade Science Spring F | Review Warm-Up Number 3 |
|---|-------------------------|
| (8 to 12 minutes, maximum) | Name: |

- 1.) There are 4 ways to weather rocks (Name them): ______
- 2.) What scientific word describes the movement of rocks and pebbles? _____

3.) Why is it important that <u>soil</u> is a renewable resource? _____

- 4.) Why don't erosion, weathering and fire happen on the moon?
 - a.) the moon is too far away c.) the moon is not as big as earth
 - b.) the moon has no atmosphere d.) none of the above
- 5.) Why are we trying to use <u>solar energy</u>, <u>wind energy and hydroelectric power</u> instead of fossil fuels as our major energy source to power our homes and cars in the United States?

6.) How do sand and small pebbles get deposited on the beach OR at the delta of a river?

- a.) the wind c.) the waves or river water carried the sand
- b.) the sun heated the water d.) electricity can electrocute through a conductor
- 7.) There was a large rock on the beach in 2000, but it was much, much smaller in 2014. What happened to the rock over the last 14 years?
- 8.) <u>All amounts of water boil</u> at what temperature in Celsius? _____

9.) <u>All amounts of water freeze</u> at what temperature in Celsius?_____

10.) Did you understand questions 8 and 9? Let's check. Ms. Smith takes her daughter swimming in Lake Travis (a very large lake). However, there is a small puddle of water on the sidewalk outside after a recent rain. If each amount of water is <u>heated</u>, at what temperature will the water <u>boil</u> for both Lake Travis and the puddle of water? ______

| 5 th Grade Science Spring Review Warm-Up Number 4 |
|--|
| (8 to 12 minutes, maximum) Name: |
| 1.) There are 4 ways to weather rocks (Name them): |
| 2.) What scientific <u>word</u> describes the <u>movement</u> of rocks and pebbles? |
| 3.) Why is it important that <u>soil</u> is a renewable resource? |
| 4.) Why don't erosion, weathering and fire happen on the moon? |
| a.) the moon is too far away c.) the moon is not as big as earth |
| b.) the moon has no atmosphere d.) none of the above |
| 5.) Why are we trying to use <u>solar energy, wind energy and hydroelectric power</u> instead of fossil fuels as our major energy source to power our homes and cars in the United States? |
| () How do send and small makkles not demonited on the baseh OD at the delta of a vivor? |
| 6.) How do sand and small peobles get <u>deposited</u> on the beach OK at the <u>delta</u> of a river? |
| a.) the wind c.) the waves or river water carried the sand |
| b.) the sun heated the water d.) electricity can electrocute through a conductor |
| 7.) There was a large rock on the beach in 2000, but it was much, much smaller in 2014. What happened to the rock over the last 14 years? |
| 8.) <u>All amounts</u> of water <u>boil</u> at what temperature in Celsius? |
| 9.) <u>All amounts</u> of water <u>freeze</u> at what temperature in Celsius? |
| 10.) Did you understand questions 8 and 9? Let's check. Ms. Smith takes her daughter swimming in Lake Travis (a very large lake). However, there is a small puddle of water o |

swimming in Lake Travis (a very large lake). However, there is a small puddle of water on the sidewalk outside after a recent rain. If each amount of water is <u>heated</u>, at what temperature will the water <u>boil</u> for both Lake Travis and the puddle of water?

| | 5 th Grade Science Spring Review Warm-Up Number 5 | | | | | |
|---|---|---|--|--|--|--|
| (8 | to 12 minutes, ma | uximum) Nat | me: | | | |
| 1.) The | 1.) There are 4 ways to <u>weather</u> rocks (Name them): | | | | | |
| 2.) Nai | 2.) Name the 3 types of fossil fuels? | | | | | |
| 3.) Wh | at major problem is | created when we use | fossil fuels? | | | |
| 4.) Wh | y do erosion, weathe | ering and fire not hap | pen on the moon but th | ney all occur on earth? | | |
| a.) 1 | the moon is too far a | way | c.) the moon is not as l | big as earth | | |
| b.) | the moon has no atm | osphere | d.) none of the above | | | |
| 5.) Wh fos | ny are we trying to us sil fuels as our major | se <u>solar energy, wind</u> r energy source to po | energy and hydroelecti wer our homes and cars | <u>ric power</u> instead of s in the United States? | | |
| 6.) Ho | w do sand and small | pebbles get <u>deposited</u> | l on the beach OR at th | e <u>delta</u> of a river? | | |
| a.) | a.) the wind c.) the waves or river water carried the sand | | | | | |
| b.) | b.) the sun heated the water d.) electricity can electrocute through a conductor | | | | | |
| 7.) The haj | 7.) There was a large rock on the beach in 1962, but it was much, much smaller in 2010. What happened to the rock over the last 48 years? | | | | | |
| 8.) <u>All amounts of water boil at what temperature in Celsius?</u> | | | | | | |
| 9.) <u>All amounts</u> of water <u>freeze</u> at what temperature in Celsius? | | | | | | |
| 10.) Jorge looked at the following chart below. What is the boiling temperature of the 25 ml water if the 50 ml glass of water boiled at 100 degrees Celsius? | | | | | | |
| | Amount of Water | Temperature | Amount of Water | Temperature | | |
| | 50 ML | 25 degrees Celsius | 25 ML | 10 degrees Celsius | | |

- a.) 50 degrees Celsius c.) 12.5 degrees Celsius
- b.) 75 degrees Celsius d.) 100 degrees Celsius

| 5 th Grade Scienc | e Spring Review Warm- | Up Number 6 |
|--|--|---|
| (8 to 12 minutes, maximum |) Name: | |
| 1.) A white polar bear (predator) co a seal (prey). In science, what is | overs his black nose with his this called when the polar | is white paw so it is not seen by bear is covering his black nose? |
| a.) being smart b.) holding his breath | | c.) using camouflage d.) using migration |
| 2.) Name the eight (8) planets in or | der from the Sun outward? | |
| 3.) Which planet makes the quickes | st orbit around the sun? | |
| 4.) Which planet makes the longest | orbit around the sun? | |
| 5.) What type of rock is most likely | to form in the <u>delta</u> of a ri | ver over a long period of time? |
| a.) igneous rock | c.) metamorp | ohic rock |
| b.) sedimentary rock | d.) none of th | e above |
| 6.) Why do <u>fossils</u> and <u>fossil fuels</u> u | sually form in a sedimenta | ry rock? |
| 7.) What object is found at the cent | er of our solar system and | is a big ball of gas? |
| a.) the moon | c.) Jupiter | e.) Saturn |
| b.) the sun | d.) Earth | f.) the Principal |
| 8.) Your science teacher lights a can light or flame slowly goes out. | ndle. Then, she places a gla Why did the candle's flame | ass over the candle. The candle's /light go out? |
| 9.) Jonathan listed types of energy | on the left. Please match t | he right definition with the energ |
| 1.) radiant energy | a.) sto | ored energy |
| 2.) thermal energy | b.) lig | ht bulb, fire, or sun light |
| 3.) potential energy | c.) he | at |
| 4.)kinetic energy | d.) flo | w of electrons in a conductor |
| 5.)electrical energy | e.) sp | eeding train or moving energy |
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| 5 th Grade Scien | ce Spring Review Warm-Up | Number 7 |
|--|---|---|
| (8 to 12 minutes, maximum | n) Name: | |
| 1.) A soldier wears all green to go blend into the surroundings wit | into the jungle on a training miss th all the leaves and plants. Wha | sion. Green allows him to at science word is he using? |
| a.) being smart b.) using camouflage | c.) holding d.) using r | g his breath nigration |
| 2.) Name the eight (8) planets in or | rder from the Sun outward? | |
| 3.) Which planet makes the quicke | est orbit around the sun? | |
| 4.) Which planet makes the longes | st orbit around the sun? | |
| 5.) What type of rock is most likely | y to form in the <u>delta</u> of a river o | ver a long period of time? |
| a.) igneous rock | c.) sedimentary ro | ock |
| b.) metamorphic rock | d.) none of the ab | ove |
| 6.) Why do <u>fossils</u> and <u>fossil fuels</u> u | usually form in a sedimentary ro | ck? |
| 7.) What object is found at the cen | nter of our solar system and is a b | big ball of gas? |
| a.) the moon | c.) Jupiter | e.) Saturn |
| b.) the sun | d.) Earth | f.) the Principal |
| 8.) Your science teacher lights a calight or flame slowly goes out. | andle. Then, she places a glass ov Why did the candle's flame/ligh | ver the candle. The candle's t go out? |
| 9.) Jonathan listed types of energy | y on the left. Please match the ri | ght definition with the energy. |
| 1.) radiant energy | a.) heat | |
| 2.) thermal energy | b.) speedin | ng train or moving energy |
| 3.) potential energy | c.) stored | energy |
| 4.)kinetic energy | d.) flow of | electrons in a conductor |
| 5.)electrical energy | e.) light bu | ılb, fire, or sun light |
| C 11 | | · 0014 All D' 14 D 1 |

(8 to 12 minutes, maximum)

Name: _

- 1.) An animal dies in the woods. The animal's body is broken down by what organisms?
 - a.) scavengerb.) decomposers

c.) camouflage d.) migration

- 2.) A red crayon is thrown in a frying pan. It melts but it does NOT burn. What type of change is taking place?
 - a.) chemical change
 - b.) property change

- c.) physical change
- d.) color change
- 3.) All water evaporates at temperatures above 0 degrees Celsius? True/False_
- 4.) In question 3.) above, ORDER from <u>greatest to least</u>, the temperatures that water evaporates the <u>fastest</u>. Given the following temperatures: 95 C, 82 C, 3 C, 14 C, 45 C, 100 C, 23 C.

5.) From question 3 and 4.), what type of energy increases with increased temperature or heat?

a.) potential energyc.) electrical energyb.) radiant energyd.) kinetic energy

6.) Jessica digs a hole in the ground. The deeper she digs into the earth, the soil is...

- a.) younger than the soil above it.b.) older than the soil above itc.) all soil is the same aged.) impossible to tell the age of soil
- 7.) Which is the largest planet in the solar system?
 - a.) Venusc.) Jupiterb.) Marsd.) Earth

8.) As the earth rotates on its axis one time, we get.....

| a.) day and night | c.) a lunar eclipse |
|---------------------|---------------------|
| b.) a solar eclipse | d.) deposition |

9.) Your mother cuts a large hunk cheese in two separate pieces. This is what type of a change?

- a.) chemical changec.) physical changeb.) property changed.) color change
- **10.)** How long does it take...
 - A.) The Earth to <u>rotate</u> one time on its axis: _____
 - B.) The Moon to make one <u>revolution</u> around the Earth:
 - C.) The Earth to make one <u>revolution</u> around the Sun: ____
 - D.) And, how many revolutions does the moon make around the Earth in ONE year: _

| 5 th Grade Science Sprin | g Review Warm-Up Number 9 |
|--|---|
| (8 to 12 minutes, maximum) | Name: |
| 1.) A vulture eats dead animals that it did n | ot kill. The vulture is called a |
| a.) scavenger b.) decomposers | c.) camouflage d.) migration |
| 2.) A red crayon is thrown in a frying pan u | intil it is burned. What is this change called? |
| a.) chemical changeb.) property change | c.) physical changed.) color change |
| 3.) Name two inexhaustible resources: | |
| 4.) In science, a bowl of different kinds of fi | ruit is an example of a |
| a.) suspension b.) mixture | c.) solutiond.) something good to eat |
| 5.) A fish fossil is found 10 feet below the su Which fossil is older? | urface and a shell fossil 20 feet below the surface. |
| a.) fish fossil b.) shell fossil | c.) both are the same aged.) none of the above |
| 6.) Which of the following objects <u>rotate</u> ? | |
| a.) Earth b.) Sun | c.) Moon d.) the Earth, Sun and Moon all rotat |
| 7.) As the earth rotates on its axis one time, | we get |
| a.) day and night b.) a solar eclipse | c.) a lunar eclipse d.) deposition |
| 8.) The metal on my car is rusting and slow | ving causing holes. This is what type of a change? |
| a.) chemical changeb.) property change | c.) physical changed.) color change |
| 9.) How long does it take | |
| A.) The Earth to <u>rotate</u> one time on its a B.) The Moon to make one <u>revolution</u> a C.) The Earth to make one <u>revolution</u> a D.) And, how many revolutions does th | axis: |
| 10.) An oil tanker hit a rocky reef and oil le causing two layers of fluids, one with o situation best describes a | aked out in to the ocean. The oil is on top of the wa |
| a.) suspension | c.) solution d) a lot of dead fish |

| 5 th Grade Science Spring Review Warm-Up Number 10 | | | |
|--|---|--|--|
| (8 to 12 minutes, maximum) | Name: | | |
| 1.) Birds fly south for the winter for war | mer weather. This animal movement is called | | |
| a.) scavenger b.) decomposers | c.) camouflage d.) migration | | |
| 2.) A glass of water is left outside on a hot day and it evaporates after 12 hours. This is an example of what type of change? | | | |
| a.) chemical change | c.) physical change | | |
| 3.) Minerals and fossil fuels are example | es of what type resource? | | |
| 4.) In science, a can of Mt. Dew is an exa | mple of a | | |
| a.) suspension b.) mixture | c.) solution d.) a drink with far too much sugar | | |
| 5.) Jesus found a fossil of a small dinosaur. Inside what type of rock is the most likely that Jesus found the fossil? | | | |
| a.) metamorphic rock | c.) igneous rock | | |
| 6.) Which of the following objects rotate | p? | | |
| a.) Earth b.) Sun | c.) Moon d.) the Earth, Sun and Moon all rotate | | |
| 7.) The earth revolves around the sun one complete revolution, we get | | | |
| a.) solar eclipse b.) a month of time | c.) one year of time d.) day and night | | |
| 8.) Which of these best describes freezing | ng from the first box to the second box? | | |
| a.) | c.) | | |

b.)

d.)

- 9.) How long does it take...
 - A.) The Moon to make one <u>revolution</u> around the Earth _____
 - B.) The Earth to rotate one time on its axis: _
 - C.) The Earth to make one revolution around the Sun: _
 - D.) And, how many revolutions does the moon make around the Earth in ONE year:
- 10.) A beaker is filled with three separate layers of fluid. Oil is the top layer, vinegar is the next layer, and water is the bottom layer. We call this situation a _____.

Fill in the blank with one of the following: mixture, suspension or a solution.

| 5 th Grade Science Spring Review W | arm-Up Number 11 | | |
|---|---------------------------------------|--|--|
| (8 to 12 minutes, maximum) Name: | | | |
| 1.) What is one advantage of using wind and solar energy and not fossil fuels? | | | |
| a.) more expensive | c.) no pollution of the air | | |
| b.) do not have dig coal from the ground | d.) no pollination of the air | | |
| 2.) A block of ice melts into liquid water. This is an | example of what type of change? | | |
| a.) chemical change | c.) physical change | | |
| b.) property change | d.) color change | | |
| 3.) What does 'biohydro' mean? What does 'geothermal' mean? | | | |
| 4.) In science, a bottle of shampoo and salt water are | e examples of | | |
| a.) solutions | c.) suspensions | | |
| b.) mixtures | d.) none of the above | | |
| 5.) Why are there more meteor craters on the moon than on the earth's surface? | | | |
| a.) the moon is struck with more meteors than earth b.) the moon has no atmosphere or erosion so craters are not filled up with dirt as they are on earth from wind and water erosion after many years. c.) the earth is bigger than the moon and meteors miss the moon d.) the earth and moon's atmospheres burn-up meteors from friction | | | |
| 6.) How long does it take the moon to revolve one ti | me completely around earth? | | |
| a.) 1 year = $365 \frac{1}{4}$ days | c.) 1 month = 4 weeks | | |
| b.) $1 \text{ day} = 24 \text{ hours}$ | d.) five years 7 months and 2 days | | |
| 7.) The earth revolves around the sun one complete revolution, we get | | | |
| a.) one year of time | c.) one day | | |
| b.) a month of time | d.) day and night | | |
| 8.) Which best describes ice melting to liquid water | from the first box to the second box? | | |
| a.) | c.) | | |

b.)



- 9.) At the start of each month when the moon is between the earth and the sun, what is the name of the moon?
 - a.) a new moonc.) a full moonb.) a quarter moond.) a half moon
- 10.) What type of energy do we call light from a fire, sunlight or classroom lighting?
 - a.) kinetic energy c.) sound energy

b.) radiant energy d.) potential energy

| 5 th Grade Science Spring Review Warm-Up Number 12 | | | |
|--|---|--|--|
| (12 to 15 minutes, maximum) No | ame: | | |
| 1.) A river brings sediment and deposits it in the delta of | the river. How did the sediment get into the river? | | |
| a.) from the erosion of mountains and plainsb.) from meteors that hit the earth | c.) from sand dunes in the deserts d.) from an ice storm upstream | | |
| 2.) Water evaporates into a gas or vapor. This is an exam | nple of what type of change? | | |
| a.) physical changeb.) property change | c.) chemical change d.) condensation change | | |
| 3.) What does 'hydroelectric' mean? | _ What does 'geology' mean? | | |
| 4.) In science, an energy drink and Dr. Pepper are examp | bles of | | |
| a.) solutions b.) mixtures | c.) suspensions d.) none of the above | | |
| 5.) Why do many meteors NOT reach the earth's surface | e when the meteor enters the Earth's atmosphere? | | |
| a.) the meteors do not have enough speed to reach the earth's surface b.) the meteors are burned up in the earth's atmosphere due to friction with air c.) the meteors are pulled to Venus at light speed and completely miss the surface of the earth d.) no meteors reach the earth's surface | | | |
| 6.) How long does it take the moon to revolve one time co | ompletely around earth? | | |
| a.) 2 years = 730 ½ days b.) 1 day = 24 hours | c.) 1 month = 4 weeks d.) 1 year = 365 ¼ days | | |
| 7.) The earth revolves around the sun one complete revolution, we get | | | |
| a.) one year of time b.) a month of time | c.) one day d.) day and night | | |
| 8.) Which best describes liquid water to a gas (vapor) from the first box to the second box? | | | |
| a.) | c.) | | |
| b.) | $d.) \qquad \overbrace{}^{4} \qquad \phantom{aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa$ | | |

9.) Half-way through every month, when earth is between the moon and the sun, what is the moon's name?

| a.) a new moon | c.) a full moon |
|--------------------|-----------------|
| b.) a quarter moon | d.) a half moon |

10.) If there is a full moon, about how many days until another full moon appears in the sky?

| a.) | 10 days | c.) 30 days |
|-----|---------|-------------|
| b.) | 20 days | d.) 60 days |

| | 5 th Grade Science Spring Review | Warm-Up Number 13 |
|----------------------|--|---|
| | (12 to 15 minutes, maximum) Na | ume: |
| 1.) A | river brings sediment and deposits it in the delta of | the river. How did the sediment get into the river? |
| | a.) from the erosion of mountains and plainsb.) from meteors that hit the earth | c.) from sand dunes in the deserts d.) from an ice storm upstream |
| 2.) A | bat flies at very high speeds and turns quickly by id | entifying objects in their flight path by |
| | a.) great eyesightb.) echolocation using sound waves | c.) following very closely to the lead batd.) none of the above |
| 3.) V | Vhales communicate with other whales in the ocean b | oy using |
| | a.) their dorsal finsb.) flags found on the bottom of the ocean | c.) their sound waves traveling through the water d.) none of the above |
| 4.) V | What causes meteors to burn up in the earth's atmos | phere? |
| | a.) the sun burns up their massb.) the friction between the earth's atmospheric.) the moon's gravitational pull on the meteord.) no meteors ever reach the earth's surface | re and the surface of the meteor causes heat or burns up the meteor the closer it gets to earth |
| 5.) V | What causes raindrops, meteors, and baseballs throw | n in air to fall or move toward earth? |
| | a.) frictionb.) thrust | c.) gravity d.) sound |
| 6.) C | On what type of floor surface would <u>friction</u> be <u>high</u> se | o a person would not slide very far? |
| | a.) a tile floor b.) a rough carpet floor | c.) a tile floor covered with waterd.) a smooth wooden floor |
| 7.) A | A <u>solar eclipse</u> occurs when which of the following oc | cur? (Draw a picture) |
| | a.) the sun leaves the solar systemb.) the moon is between the earth and sun | c.) the sun is between the earth and moond.) the earth is between the moon and sun |
| 8.) A | <u>lunar eclipse</u> occurs when which of the following oc | cur? (Draw a picture) |
| | a.) the sun leaves the solar systemb.) the moon is between the earth and sun | c.) the sun is between the earth and moond.) the earth is between the moon and sun |
| 9.) If | f there is a new moon, <u>about</u> how many days until a f | ull moon appears in the sky? |
| | a.) 10 daysb.) 15 days | c.) 30 daysd.) 60 days |
| 10.) | Soil is renewable. Which of the following help make soil back <u>nutrients</u> so grass, plants and crops can gro | soil a renewable resource and give the w the following year? |
| | a.) manure (cow poop)b.) decayed/dead plants and organisms | c.) fertilizerd.) All of the above make soil renewable |

| 5 th Grade Science Spring Re | eview Warm-Up Number 14 |
|---|---|
| (12 to 15 minutes, maximum) | Name: |
| 1.) An animal only comes out at night and sleeps du | ring the day. What is this behavior called? |
| a.) diurnal b.) a night owl | c.) migration d.) nocturnal |
| 2.) All food chains and food webs all begin with wha | at object? (Think) |
| a.) producerb.) consumer | c.) the Sun and its energyd.) photosynthesis |
| 3.) <u>Metamorphosis</u> occurs with what type of animals | s or insects? |
| a.) caterpillar to butterflyb.) tadpole to frog | c.) both answers a.) and b.)d.) none of these answers |
| 4.) What is the name of an animal that eats both pla | ants and animals? |
| a.) herbivoreb.) omnivorec.) carnivored.) nottoochoosey | |
| 5.) A spaceship lifts off from earth in Florida. What | t force tries to pull the ship back to earth? |
| a.) friction b.) thrust | c.) gravity d.) sound |
| 6.) When two objects rub together creating friction, | what type of energy is present between the objects? |
| a.) sound energyb.) thermal energy | c.) potential energyd.) kinetic energy |
| 7.) A <u>solar eclipse</u> occurs when which of the following | ng occur? (Draw a picture of earth, moon and sun) |
| a.) the sun leaves the solar systemb.) the sun is between the moon and ear | c.) the moon is between the earth and sund.) the earth is between the moon and sun |
| 8.) A <u>lunar eclipse</u> occurs when which of the following | ng occur? (Draw a picture of earth, moon and sun) |
| a.) the sun leaves the solar systemb.) the moon is between the earth and set | c.) the sun is between the earth and moond.) the earth is between the moon and sun |
| 9.) If there is a new moon, <u>about</u> how many days un | til another new moon appears in the sky? |
| a.) 10 days b.) 15 days | c.) 30 daysd.) 60 days |
| 10.) Soil is renewable. Which of the following help r soil back rich <u>nutrients</u> so grass, plants and cro | make soil a renewable resource and give the ps can grow the following year? |
| a.) manure (cow poop) | c.) fertilizer |

b.) decayed/dead plants and organisms d.) All of the above make soil renewable

| 5 th Grade Science Spring Rev | iew Warm-Up Number 15 |
|--|--|
| (12 to 15 minutes, maximum) | Name: |
| .) Abbey is studying nocturnal predators. What is a | characteristic of a successful nocturnal preda |
| a.) bright feathers | c.) big eyes |
| b.) long legs | d.) flat teeth |
| ood Chain Diagram (Use the Diagram to answer que | estions 2 - 5 below) |
| | Consumer Number |
| M | |
| Sun | |
| ZAR Concurr | or Number 1 |
| | er Number 1 |
| .) Which of the following choices should go in the box | x in the Food Chain Diagram above. |
| a.) producer | c.) carnivore |
| b.) consumer | d.) herbivore |
| .) What do the 'arrows' mean in the Food Chain Dia | gram? |
| a.) who is eating who | c.) the metamorphosis of a consumer |
| b.) a transfer of energy | d.) all plants need the sun |
| .) Consumer Number 1 in the Food Chain Diagram is | s an? |
| a.) omnivore | c.) herbivore |
| b.) suniovore | d.) carnivore |
| .) Consumer Number 2 in the Food Chain Diagram is | s a? |
| a.) omnivore | c.) herbivore |
| b.) suniovore | d.) carnivore |
| .) The first stage of the <u>metamorphosis</u> of a butterfly | is? |
| a.) a larva or caterpillar | c.) an egg |
| b.) an adult or butterfly | d.) a cocoon or pupa or chrysalis |
| .) What is the name of an animal that eats both plan | ts and animals? |
| a.) herbivore | c.) carnivore |
| b.) omnivore | d.) nottoochoosey |
| .) If there is a full moon, <u>about</u> how many days until a | a new moon appears in the sky? |
| a.) 10 days | c.) 30 days |
| b.) 15 days | d.) 60 days |
|) People get drinkable water from two places. Name | them |

| 5 th Grade Science | e Spring Review | v Warm-Up | Number | 16 |
|-------------------------------|-----------------|-----------|--------|----|
|-------------------------------|-----------------|-----------|--------|----|

(12 to 15 minutes, maximum)

.....

Name:

1.) An owl is a nocturnal predator. What is a characteristic of owls that make them successful nighttime hunters?

a.) big eyes that lets light in c.) small feathers

b.) fast runners

d.) sharp teeth

| Food Web Diagram (Use the Diagram to answer question | ns 2 - 6 below) |
|---|--|
| Animal Number | 2 Animal Number 3 |
| Animal Nut | mber 1 |
| 2.) Which of the following choices should go in the box in | the Food Web Diagram above. |
| a.) Plant Number 1 | c.) omnivore |
| b.) Animal Number 4 | d.) herbivore |
| 3.) What do the 'arrows' mean in the Food Web Diagram | 1? |
| a.) who is eating who | c.) the metamorphosis of a consumer |
| b.) a transfer of energy | d.) all plants need the sun |
| 4.) Animal Number 2 in the Food Web Diagram is an | ? |
| a.) omnivore | c.) herbivore |
| b.) suniovore | d.) carnivore |
| 5.) Animal Number 3 in the Food Web Diagram is | ? |
| a.) a predator | c.) prey |
| b.) an herbivore | d.) hungry |
| 6.) Animal Number 1 in the Food Web Diagram is | ? |
| a.) the predator | c.) a producer |
| b.) an herbivore | d.) hungry |
| 7.) The last stage of the metamorphosis of a butterfly is ca | alled? |
| a.) a larva or caterpillar | c.) an egg |
| b.) an adult or butterfly | d.) a cocoon or pupa or chrysalis |
| 8.) If there is a new moon, <u>about</u> how many days until a <u>s</u> | econd full moon appears in the sky? (Think!) |
| a.) 10 days | c.) 30 days |
| b.) 15 days | d.) 45 days |

9.) People get drinkable water from two places. Name them.

5th Grade Science Spring Review Warm-Up Number 17 (12 to 15 minutes, maximum) Name: _____

1.) A raccoon sneaks into a house and finds stored cans of food in the kitchen pantry. He figures out how to use his paws to pry open a can of food so he can eat it. After eating 3 cans of food, the raccoon leaves and returns the next day to the kitchen for food. What type of behavior is the raccoon demonstrating?





- a.) a consumer c.) a producer
- b.) Animal Number 5 d.) an herbivore

3.) What do the 'arrows' mean in the Food Web Diagram?

| a.) who is eating who b.) which animal likes another animal | c.) the metamorphosis of a consumer d.) a transfer of energy |
|--|--|
| 4.) Animal Number 3 in the Food Web Diagram is an | ? |
| a.) omnivore | c.) herbivore |
| b.) suniovore | d.) carnivore |
| 5.) Animal Number 4 in the Food Web Diagram is | ? |
| a.) a consumer | c.) prey |
| b.) an herbivore | d.) hungry |
| 6.) Animal Number 2 in the Food Web Diagram is | ? |
| a.) hungry | c.) an herbivore |
| b.) a producer | d.) predator |

7.) The stage of the metamorphosis of a butterfly when it makes a cocoon is also called

- a.) a larva or caterpillarb.) an adult or butterflyc.) an eggd.) a pupa or chrysalis
- 8.) Esteban changes the oil on his car. He dumps the used oil on the ground instead of disposing of the oil in a recycle container. What problem does the oil on the ground may cause the environment?
 - a.) kill the grass and plants in the area
 - b.) harm animals in the area

c.) pollute the groundwater beneath the ground

?

d.) all above answers are possible problems from the dumping of oil on the ground

| 5 th Grade Science Spring Revi | ew Warm-Up Number 18 |
|--|--|
| (12 to 15 minutes, maximum) | Name: |
| 1.) A mother cat had a litter of kittens. All of the kitter eyes are an example of | ns had brown eyes like their mother. The brown |
| a.) a decomposer | c.) a learned behavior |
| b.) an inherited trait | d.) none of the above |
| Food Web Diagram (Use the Diagram to answer quest | ions 2 - 6 below) |
| Animal Number 2 Animal Numb | Animal Number 4 |
| ALL I | |
| Sunk | |
| | |
| Plant Number 1 Anim | al Number 1 |
| 2.) How is Plant Number 1 using the sunlight in the Fo | od Web Diagram above? |
| a.) making their own food | c.) absorbing or taking in carbon dioxide |
| b.) giving off or emitting oxygen | d.) all of the above |
| 3.) Animal Number 1 and Animal Number 2 are both (| called |
| a.) an omnivore | c.) an herbivore |
| b.) a decomposer | d.) a carnivore |
| 4.) Animal Number 4 in the Food Web Diagram is | · |
| a.) an omnivore | c.) a consumer |
| b.) a predator | d.) all of the above |
| 5.) All life of all animals and plants always begins in th | e Food Web Diagram with? |
| a.) Animal Number 1 | c.) the sun |
| b.) Plant Number 1 | d.) producers |
| 6.) Animal Number 3 in the Food Web Diagram is | ? |
| a.) a predator | c.) both a prey and a consumer |
| b.) a producer | d.) an omnivore |
| 7) The sup is made of and the mee | n is made out of 2 |
| a) impossible for anyone to linear | a) sun is made of gases and mean of dirt for |
| a.) Impossible for anyone to know b.) both the sun and moon are made of gase | c.) sun is made of gases and moon of gases |
| 8.) Humans get most of their drinkable water from rived drinkable water from the ocean waters? | ers/lakes and ground water. Why do we <u>not</u> get ou |
| a) the water is too door | a) the waters flow away from our shares |
| b.) sharks and whales keep humans away | d.) the high salt content in the ocean water causes dehydration in human beings |
| | |



| 5 Grade Detence Spring Review if anni Op Mandel 20 | 5 th | Grade | Science | Spring | Review | Warm- | -Up | Number | 20 |) |
|--|-----------------|-------|---------|--------|--------|-------|-----|--------|----|---|
|--|-----------------|-------|---------|--------|--------|-------|-----|--------|----|---|

(12 to 15 minutes, maximum)

- **-**

Name: ____

- 1.) It was foggy on Saturday morning. This is an example of water changing from a gas to water. What is this change called in science?
 - a.) evaporationc.) condensationb.) meltingd.) freezing

Food Chain Diagram (Use the Diagram to answer questions 2 - 6 below)

→ caterpillars – → small birds -→ hawks plants -2.) Which organism (living thing) is necessary for all animals to be able to survive in the food chain diagram? a.) hawks c.) caterpillars b.) small birds d.) plants 3.) Which organisms in the food chain diagram may be classified as predators? a.) caterpillars and small birds c.) small birds and hawks b.) plants and hawks d.) plants only 4.) Based on the food chain diagram, if the population of small birds increases, what will happen to the caterpillar population? a.) stay the same c.) increases b.) decreases d.) all of the above 5.) If the number of plants decreases due to pesticides, what will happen to the caterpillar population? a.) stay the same c.) increases b.) decreases d.) none of the above 6.) Hawks in the food chain diagram are classified as a.) carnivores c.) predators b.) consumers d.) all of the above

7.) A heavy marble sinks to the bottom of glass of water while a small cork floats on top of the water. What statement is true when comparing the density of the water, cork and marble?

- a.) the cork is the most dense object
- c.) water is less dense than the cork
- b.) the marble is the most dense object d.) the marble is the least dense object
- 8.) Salt and sugar are dissolved in a pan of water. After 3 days, only the sugar and salt remain after the water evaporated. Why did the salt and sugar NOT evaporate like the water?
 - a.) salt and sugar are too heavy
- c.) salt and sugar dissolved and are invisible
- b.) water is a liquid where salt and sugar are d.) all ingredients evaporated in the pan of water minerals
- 9.) Which layer of the earth is the thinnest? _____ Which layer of the earth is the hottest? _____
- 10.) My cat sees itself in the bathroom mirror. In science, this is an example of ______.

a.) refraction of light b.) reflection of light c.) the cat's good eyesight

(12 to 15 minutes, maximum)

Name: _____

1.) A fifth grader's younger brother reaches into the refrigerator to grasp a gallon of milk and discovers water droplets all over the container. The fifth grader explains to his brother it is most likely due to the change in temperature after the milk was left on the counter earlier compared to the temperature inside the refrigerator and water vapor changed back to a liquid form. What is the name for this?

| a.) evaporation | c.) condensation |
|-----------------|------------------|
| b.) melting | d.) freezing |

Food Chain Diagram (Use the Diagram to answer questions 2 - 6 below)
Support plants plants snails
2.) Which organism (living thing) is necessary for all animals to be able to survive in the food chain diagram?
a.) plants
b.) small birds
c.) caterpillars
d.) foxes

3.) Which organisms in the food chain diagram may be classified as predators?

- a.) caterpillars and small birds c.) small birds, ducks, foxes and hawks
 - b.) plants and hawks d.) plants only
- 4.) Based on the food chain diagram, if the population of snails decreases, what will most likely happen to the hawk population?
 - a.) stay the samec.) increasesb.) decreasesd.) all of the above
- 5.) If the number of foxes decreases due to overhunting by man, what will happen to the snail population?
 - a.) stay the samec.) increasesb.) decreasesd.) none of the above

6.) Hawks and foxes in the food chain diagram are classified as _____

a.) carnivoresc.) predatorsb.) consumersd.) all of the above

7.) A suspension of oil (top layer) and water (bottom layer) are in a glass with a cork on the top of the oil. What statement is true when comparing the densities of the water, oil, and cork?

a.) the cork is the most dense object c.) the oil and cork are less dense than the water

b.) the oil is the most dense liquid

d.) the water is the least dense of all the objects

8.) What is the easiest way to separate iron ore from soil?

- a.) use a sievec.) use a magnetb.) use a hand lensd.) use a wire brush
- 9.) A rainbow is caused by sunlight passing through precipitation. This situation is an example of ______.

a.) refraction of light b.) reflection of light c.) the magic of optics in science

(12 to 15 minutes, maximum)

- Name:
- 1.) A blue crayon is placed in a frying pan on a hot stove. The blue crayon melts but does not burn. All of the following answer choices DID NOT change when the blue crayon melted EXCEPT
 - a.) the crayon's color
 - b.) the crayon's mass

c.) the crayon's shape

- d.) the number of atoms in the crayon



9.) What is the main reason for the four seasons (winter, summer, fall, spring) we have on Earth?

a.) the distance of earth from the sun b.) the moon's orbit around the earth

- c.) the tilt (declination) of the earth
- d.) the rotation of the earth on its axis

10.) The ocean tides occur twice every day. What object is the main reason for the ocean tides? Copyright, © Latrese Smith and Blaine Helwig, 2014. All Rights Reserved

(12 to 15 minutes, maximum)

Name: _

1.) Your shadow is directly underneath your body as you walk to the playground. What time of day is it?

a.) 8 AM (morning)

c.) 12 PM (noon – lunch time)

b.) 5 PM (school's out for the day)

- d.) Party time
- PLANT DIAGRAM (Use the Diagram to answer questions 2 8 below)
- flower leaf sharp thorns stem . - soil roots 2.) The plant roots allow what two important things to enter the plant. Name them. 3.) What is inside the plant's stem that allow water and nutrients (minerals) to reach the leaves? c.) rubber a.) cardboard paper d.) none of the above b.) small vertical tubes to transport water/minerals 4.) What is the purpose or function of the flowers or fruits on a plant or tree? c.) to attract sunlight a.) to look pretty d.) to defend the plant from herbivores b.) to reproduce and make more plants and trees 5.) During photosynthesis, what is the plant making? c.) fertilizing the ground with minerals a.) it is reproducing d.) making a sugar or its food b.) it is in the process of pollination 6.) Why is a plant called a producer, and it is not called a consumer? c.) a plant is a performer not a producer a.) a plant is unable to make its own food b.) a plant makes its own food and a consumer cannot d.) a plant is a consumer 7.) A plant or tree sometimes has sharp thorns. What purpose or function do the thorns serve? a.) to defend the plant or tree against predators c.) to attract sunlight d.) all of the above b.) to hurt and kill the plant 8.) How does a flowering plant reproduce for its species to live on the next year? c.) plant pollen sticks to animal fur a.) insects pollinate when they get nectar d.) all of the above b.) plant pollen is transported by the wind 9.) What is the main reason for the four seasons (winter, summer, fall, spring) we have on Earth? c.) the tilt (declination) of the earth a.) the distance of earth from the sun d.) the rotation of the earth on its axis b.) the moon's orbit around the earth 10.) During the rock cycle, what type of rock is formed underground due to heat and pressure? c.) igneous rock b.) metamorphic rock a.) sedimentary rock

(12 to 15 minutes, maximum)

- 1.) A blue crayon is placed in a frying pan on a hot stove. The blue crayon melts but does not burn. All of the following answer choices DID NOT change when the blue crayon melted EXCEPT _
 - a.) the crayon's color

c.) the crayon's shape

b.) the crayon's mass

- d.) the number of atoms in the crayon
- PLANT DIAGRAM (Use the Diagram to answer questions 2 8 below) flower leaf sharp thorns stem - soilroots 2.) The plant roots allow two important things to enter the plant. Name them. 3.) What is inside the plant's stem that allow water and nutrients (minerals) to reach the leaves? a.) cardboard paper c.) sunlight b.) small vertical tubes to transport water/minerals d.) precipitation 4.) What is the purpose or function of the flowers or fruits on a plant or tree? a.) to look pretty c.) to attract sunlight b.) to reproduce the species and make more plants/trees d.) to defend the plant from herbivores 5.) During photosynthesis, what is the plant making? c.) fertilizing the ground with minerals a.) it is reproducing b.) it is in the process of pollination d.) making a sugar or its food 6.) What gas is absorbed into the leaf during photosynthesis? c.) oxygen a.) nitrogen d.) phosphorous b.) carbon dioxide 7.) What gas is emitted or given off during the process of photosynthesis? a.) nitrogen c.) oxygen b.) carbon dioxide d.) phosphorous 8.) What is also absorbed into the leaf during photosynthesis for the plant to make sugar or its food? c.) moon rays a.) helium b.) sunlight d.) phosphorous 9.) What is the main reason for the four seasons (winter, summer, fall, and spring) we have on Earth?
 - a.) the distance of earth from the sun
- c.) the tilt (declination) of the earth
- b.) the moon's orbit around the earth d.) the rotation of the earth on its axis
- 10.) The ocean tides occur twice every day. What object is the main reason for the ocean tides? Copyright, © Latrese Smith and Blaine Helwig, 2014. All Rights Reserved

(12 to 15 minutes, maximum)

1.) A timber company harvests trees to have wood to build homes. What may happen as the timber company continues to harvest trees in the same area where many animals live?

Name:

- a.) a law will declare no fishing in that area
- b.) the timber company will lose money

PHASES OF THE MOON DIAGRAM (Use the Diagram to answer questions 2 – 8 below)



2.) "Phases of the Moon" means a change of what on the moon?

3.) What is the order of the phases of the moon starting at the beginning of the month?

| a.) 2, 4, 1, 3 | c.) 3, 4, 1, 2 |
|----------------|----------------|
| b.) 3, 2, 4, 1 | d.) 1, 2, 3, 4 |

4.) What is the moon called that is labeled number 3 in the Phases of the Moon Diagram above?

a.) the pretty moon c.) the old moon b.) the new moon d.) the full moon

5.) What is the moon called that is labeled number 4 in the Phases of the Moon Diagram above?

- a.) the pretty moon c.) the old moon
- d.) the full moon b.) the new moon

6.) How many weeks does it take the moon to revolve around the earth one time?

- c.) about 1 year a.) about four weeks b.) about 1 day d.) about 365 1/4 days
- 7.) What is another name for the moon?
 - c.) Suzy a.) solar
 - d.) None of the above b.) lunar

8.) What does the moon's gravitational pull on earth cause twice a day on the earth's surface?

c.) earthquakes a.) recess d.) large mountains to form b.) the ocean tides

9.) Seasons (fall, winter, spring, and summer) of the earth occur due to the earth's tilt and as

- c.) the earth rotates on its axis a.) the sun rotates on is axis
- d.) the earth revolves around the sun b.) the moon revolves around the earth

10.) A fifth grader's shadow from the sun is very long and extends far toward the west. About what time of day is it?

| a.) | 12 PM (noon) | c.) 6 PM |
|-----|------------------|----------|
| b.) | 12 AM (midnight) | d.) 8 AM |

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c.) animals will lose their habitats in that area d.) animals will dig holes since there are no trees

5th Grade Science Spring Review Warm-Up Number 26 (12 to 15 minutes, maximum) Name: 1.) The moon is between the earth and the sun. What type of eclipse is occurring? (Draw three circles. Correctly label each circle as either the sun, moon and earth. "Eclipse" means 'going away".) a.) lunar eclipse c.) Eclipse of the Heart b.) night time eclipse d.) solar eclipse PHASES OF THE MOON DIAGRAM (Use the Diagram to answer questions 2 - 9 below) 2 3 2.) "Phases of the Moon" means a change of what on the moon? 3.) What is the order of the phases of the moon starting at the beginning of the month? a.) 2, 4, 1, 3 c.) 3, 4, 1, 2 b.) 3, 2, 4, 1 d.) 1, 2, 3, 4 4.) What is the moon called that is labeled number 2 in the Phases of the Moon Diagram above? a.) the pretty moon c.) the old moon b.) the new moon d.) the full moon 5.) What is the moon called that is labeled number 1 in the Phases of the Moon Diagram above? a.) the pretty moon c.) the old moon d.) the full moon b.) the new moon 6.) How many weeks does it take the moon to revolve around the earth one time? a.) about four weeks or 30 days c.) about 1 year d.) about 365 1/4 days b.) about 1 day 7.) What is another name for the moon? c.) Suzy a.) solar d.) None of the above b.) lunar 8.) What does the moon's gravitational pull on earth cause twice a day on the earth's surface? a.) recess c.) earthquakes d.) large mountains to form b.) the ocean tides 9.) If it is a full moon, about how many days until a new moon appears in the nighttime sky? c.) 45 days a.) 15 days d.) 60 days b.) 30 days

10.) A fifth grader's shadow from the sun is very long and extends far toward the <u>east</u>. About what time of day is it?

| a.) | 12 PM (noon) | c.) 5 PM |
|-----|------------------|----------|
| b.) | 12 AM (midnight) | d.) 8 AM |

(12 to 15 minutes, maximum)

Name:

1.) The sun does not move, but it appears to move across the earth's sky. What is causing this situation?

- a.) rotation of the moon on its axis
- c.) rotation of the sun on its axis
- b.) rotation of the earth on its axis
- d.) revolution of the moon around the earth
- The Water Cycle (Use the Diagram to answer questions 2 8 below) D Ocean Land 2.) Label the Water Cycle Diagram for Letters A, B, C, D and E. 3.) What causes condensation in the clouds that are labeled by Letter 'C'? a.) fluffy air c.) colder temperatures and expansion of air d.) airplanes flying too low in the sky b.) higher temperature 4.) In the process labeled Letter 'E', where does the runoff begin? a.) in the desert c.) in the mountains and plains b.) in the lakes d.) runoff flows toward the clouds not the ocean 5.) Is the evaporation of salt water a chemical or physical change? 6.) Is the condensation that forms clouds a chemical or physical change? 7.) What object in the solar system begins the water cycle on earth? a.) the sun c.) Earth b.) the moon d.) Venus 8.) Name the material that is carried by erosion forces from the mountains and fields and is deposited in river deltas. a.) large rocks c.) glaciers b.) small sediments, pebbles and soil d.) solar energy 9.) If it is a full moon, about how many days until a SECOND full moon appears in the nighttime sky? a.) 15 days c.) 45 days b.) 30 days d.) 60 days 10.) As the teacher walks her students across the playground, the students notice that their shadow from the sun is directly underneath their bodies. About what time of day is it? a.) 12 PM (noon) c.) 5 PM b.) 12 AM (midnight) d.) 8 AM
- 11.) Name ALTERNATIVE energy sources compared to the use of fossil fuels.

5th Grade Science Spring Review Warm-Up Number 28 (15 to 20 minutes, maximum) Name: 1.) The earth is between the moon and the sun. What type of eclipse is occurring? (Draw three circles Label each the sun, moon and earth correctly. "Eclipse" means 'going away".) c.) Eclipse of the Heart a.) lunar eclipse d.) solar eclipse b.) night time eclipse PHASES OF THE MOON DIAGRAM (Use the Diagram to answer questions 2 – 9 below) 2 4 1 3 2.) "Phases of the Moon" means a change of what on the moon? 3.) What is the order of the phases of the moon starting at the beginning of the month? c.) 3, 4, 1, 2 a.) 4, 3, 2, 1 b.) 3, 2, 4, 1 d.) 1, 2, 3, 4 4.) What is the moon called that is labeled number 2 in the Phases of the Moon Diagram above? a.) the pretty moon c.) the old moon b.) the new moon d.) the full moon 5.) What is the moon called that is labeled number 4 in the Phases of the Moon Diagram above? a.) the pretty moon c.) the old moon b.) the new moon d.) the full moon 6.) How many weeks does it take the moon to revolve around the earth one time? a.) about four weeks (or 30 days) c.) about 1 year d.) about 365 1/4 days b.) about 1 day 7.) What is another name for the moon? a.) lunar c.) Suzy b.) solar d.) None of the above 8.) What does the moon's gravitational pull on the earth cause twice a day on the earth's surface? c.) earthquakes a.) recess d.) large mountains to form b.) the ocean tides 9.) If it is a full moon, about how many days until another full moon appears in the nighttime sky? c.) 45 days a.) 15 days b.) 30 days d.) 60 days

10.) A fifth grader's shadow is almost directly below him. About what time of day is it?

| a.) 12 PM (noon) | c.) 5 PM |
|----------------------|----------|
| b.) 12 AM (midnight) | d.) 8 AM |

(15 to 20 minutes, maximum)

Name:

1.) Each day, the sun appears to move across the earth's sky. What is causing this phenomenon?

- a.) rotation of the earth on its axis
- c.) rotation of the sun on its axis
- b.) rotation of the moon on is axis
- d.) revolution of the moon around the earth

The Water Cycle (Use the Diagram to answer questions 2 – 8 below)

| (ere ere generation of the second seco | 1 |
|--|--|
| Sunt and a | |
| A | D |
| $\begin{array}{c} \uparrow \\ \hline \\ \hline \\ \hline \\ \hline \\$ | Ocean E Land |
| 2.) Label the Water Cycle Diagram for Le | tters A, B, C, D and E. |
| 3.) What causes condensation in the clouds | s that are labeled by Letter 'C'? |
| a.) fluffy air b.) higher temperature | c.) colder temperatures and expansion of air d.) airplanes flying too low in the sky |
| 4.) In the process called Letter 'E', where | does the runoff begin? |
| a.) in the desert b.) in the lakes | c.) in the mountains and plainsd.) runoff flows toward the clouds not ocean |
| 5.) Is the evaporation of salt water a chem | cal or physical change? |
| 6.) Is the condensation that forms clouds a | chemical or physical change? |
| 7.) What force pulls the precipitation to th | e earth's surface? |
| a.) friction | c.) gravity |
| b.) thrust | d.) all of the above |
| 8.) Name the material that is carried by er river deltas. | osion forces from the mountains and fields and is deposited in |
| a.) large rocks | c.) glaciers |
| b.) small sediments, pebbles and | soil d.) solar energy |
| 9.) If it is a <u>new moon</u> , about how many da | ys until a <u>SECOND full moon</u> appears in the nighttime sky? |
| a.) 15 days | c.) 45 days |
| b.) 30 days | d.) 60 days |
| 10.) As a group of students stand on the play About what time of day is it? | ground, they notice their shadows extend toward the west. |
| a.) 12 PM (noon) | c.) 5 PM |
| b.) 12 AM (midnight) | d.) 9 AM |
| | |

11.) Name ALTERNATIVE energy sources compared to the use of fossil fuels.
5th Grade Science Spring Review Warm-Up Number 30 (15 to 20 minutes, maximum) Name: ______

1.) A bird builds his next in back window of an abandoned car. What is this called in science?

a.) dangerous

c.) a nocturnal predator

b.) a poor place for a habitat

- d) an adaption to the bird's anyi
- d.) an adaption to the bird's environment

The Rock Cycle (Use the Diagram to answer questions 2 – 7 below)



- 2.) Label the Rock Cycle Diagram for Letters A, B, C, D and E. (USE: Wind, Erosion, Compaction, Weathering and Precipitation)
- 3.) Label the Rock Cycle Diagram for Numbers 1, 2, and 3 (<u>USE:</u> Sedimentary Rock, Metamorphic Rock, and Igneous Rock)
- 4.) What force (Letter C in the Rock Cycle Diagram) carries the weathered rock to the river?
 - a.) friction and thrust c.) electricity and magnetism
 - b.) erosion and gravity d.) none of the above

5.) What two forces shown in the Rock Cycle Diagram weather the igneous rock (Letter B)?

- a.) the wind and precipitation (water/sleet/ice) c.) mudslides and rockslides
- b.) the volcano and magma d.) lava and magma
- 6.) What type of rock is formed underground with heat and pressure?_____

7.) In what type of rock would fossils most likely be formed?

8.) All of the following help an animal defend itself against predators EXCEPT ______.

- a.) a hard shell c.) sharp claws, teeth and quills
- b.) short legs d.) the ability to run very fast

9.) A conductor allows what two things to easily pass through it?

10.) Name as many <u>conductors</u> as possible.

11.) On the line below, name as many insulators that do not allow electricity or heat to pass through itself.

(15 to 20 minutes, maximum)

Name:

- 1.) A young man reads a book with a see through glass hemisphere to make the print bigger. What type of science principle is taking place?
 - a.) reflection of light

c.) refraction of light

b.) condensation

d.) decomposer

The Rock Cycle (Use the Diagram to answer questions 2-8 below)



- 2.) Label the Rock Cycle Diagram for Letters A, B, C, D and E. (<u>USE:</u> Wind, Erosion, Compaction, Weathering, and Precipitation)
- 3.) Label the Rock Cycle Diagram for Numbers 1, 2, and 3 (USE: Sedimentary Rock, Metamorphic Rock, and Igneous Rock)
- 4.) What force (Letter C in the Rock Cycle Diagram) carries the weathered rock to the river?
 - a.) friction and thrust
 - b.) electricity and magnetism
- c.) erosion and gravity d.) all of the above
- ism d.) all o
- 5.) What two forces shown in the Rock Cycle Diagram weather the igneous rock (Letter D)?
 - a.) lava and magma
 - b.) the volcano and magma

- c.) mudslides and rockslides
- d.) the wind and precipitation (water/sleet/ice)

6.) What type of rock is formed underground with heat and pressure?

7.) In what type of rock would fossil fuels and fossils most likely be formed?

8.) True or False. A metamorphic rock may be changed into a sedimentary or an igneous rock? _____

- 9.) How many 'things' are changed or tested in any science experiment? ______.
- 10.) A conductor allows what two things to easily pass through it?
- 11.) Name as many <u>conductors</u> as possible.
- 12.) On the line below, name as many insulators that do not allow electricity or heat to pass through itself.

(15 to 18 minutes, maximum) Name:

- 1.) Melissa listed 4 characteristics for a predator using what she learned in her science class. Write the 4 characteristics of predators she wrote down on her paper.
 - 1.) _____ 3.) _____ 2.) _____ 4.) _____
- 2.) How many things or variables are changed in any science experiment?
- 3.) In a science class, Dante did the following to set-up his experiment. He used the same amount of water on each of three plants. He used the same amount of sunlight and the same soil type on all three plants as well. Dante used three different types of plants in each pot holder. What was Dante testing during his science experiment?
 - a.) How water affects plant growthb.) How soil affects plant growth
- c.) Which type of plant grows best in the soil
- d.) How changing the sunlight affects the plant
- 4.) Why would an organism like a blow fish expand its lungs and appear to be twice the size normally when it sees a predator?
 - a.) to eat more food
 - **b.**) to get more oxygen to its lungs
- c.) to appear much bigger and protect itself
- d.) to take up more space in its environment

| Jose sawed a tree down and examined the tree trunk tree ring | şs |
|--|----|
| shown in the picture to right. | |

- 5.) How old was the tree that Jose cut down?
 - a.) 3 years old c.) 5 years old b.) 4 years old d.) 6 years old
- 6.) In what year of the tree's life was there most likely a drought?
 - a.) 3 years old c.) 5 years old b.) 4 years old d.) impossible to tell
- 7.) What helps protect a tree against a fire and insects?
 - a.) the inner most ring c.) the outside bark
 - **b.**) the leaves of the tree d.) None of the above

8.) What is the function of a flower on either a tree or a plant?

a.) to hold water **b.**) to reproduce the species

- c.) to look pretty in the backyard
- d.) to hold nectar for sunlight
- 9.) How is a plant able to reproduce using its flower for pollen to move to another flower?
 - a.) insects like bees and butterflies b.) wind carrying pollen
- c.) pollen gets stuck in a passing animal's fur d.) all choices help plants reproduce
- **10.)** Name two ways a fruit tree like an apple tree reproduces:

(12 to 15 minutes, maximum) Name: _____

- 1.) Travis lists a predator using 4 characteristics she learned in her science class. List the 4 characteristics she wrote down on her paper.
 - 1.) _____ 3.) _____
 - 2.) _____ 4.) ____
- 2.) How many things or variables are changed in any science experiment?
- 3.) In a science experiment, a fifth grader can ALWAYS tell what is being tested in the experiment by
 - a.) reviewing the type of science equipment used c.) checking the temperature of the water
 - b.) looking at the one thing that is changed d.) taking note of the constants in the experiment
- 4.) The temperature of a glass of water is 55° Celsius. How many degrees must the water temperature increase to reach the water's boiling temperature?
 - a.) 55° Celsius c.) 212° Celsius d.) 45° Celsius b.) 0° Celsius

| Elaine looked at a tree trunk tree rings shown in the pictu | re to the right. |
|---|------------------------|
| 5.) How old was the tree that Elaine is looking at? | |
| a.) 4 years old | c.) 6 years old |
| b.) 5 years old | d.) 7 years old |
| 6.) In what year of the tree's life was there most likely a d | rought? |
| a.) 3 years old | c.) 5 years old |
| b.) 4 years old | d.) impossible to tell |
| 7.) What helps protect a tree against a fire and insects? | |
| a.) the inner most ring | c.) the outside bark |
| | |

b.) the leaves of the tree

- **d.**) None of the above

8.) A bird builds its nest on top of a light on a building. What is the bird doing besides building his habitat?

- a.) making sure the habitat is out of the wind c.) attracting predators **b.**) adapting to the environment d.) staying out of the sun
- 9.) Glaciers are large masses of ice that move slowly over the land. Which one of these features is most likely formed by a glacier?
 - a.) a high mountain c.) a wide vallev b.) a deep ocean d.) a desert
- 10.) Name two ways a fruit tree reproduces:
- 11.) What type of energy is released by a light bulb that is turned on?

(12 to 15 minutes, maximum) Name:

1.) Shown below is white, visible light as it travels through a glass triangular prism. It separates into seven colors (ROYGBIV) – Red, Orange, Yellow, Green, Blue, Indigo and Violet as it travels through the glass prism. This is an example of refraction since the light is bent by the glass prism.



What is another example of refraction?

- a.) when light bounces back from a mirror **c.**) when sunlight strikes the moon
- b.) when light strikes your paper on your desk d.) when light goes into water
- 2.) A animal skull has flat teeth. What type of animal was it most likely when it was alive?
 - h.) omnivorej.) skullivorei.) herbivorek.) carnivore
- 3.) The temperature of a glass of water is 26° Celsius. How many degrees must the water temperature decrease to reach water's freezing temperature?

| a.) 26° Celsius | c.) 212° Celsius |
|-----------------|------------------|
| b.) 32° Celsius | d.) 45° Celsius |

The Electrical Circuit shown in the diagram below will be used to answer questions 4-6.



- 4.) What light will NOT come on in this circuit as it is shown above?
 - a.) Light # 1
 - **b.)** Light # 2

- c.) Light # 3
- d.) All Light will not work
- 5.) IF the switch were OPEN, what lights will light up?
 - h.) Light # 1
 - i.) Light # 2

- j.) Light # 3
- k.) None of the lights will not shine light or work

6.) Why is rubber or plastic wrapped around the copper (metal) in the wires in the circuit shown above?

- a.) rubber and plastic are insulators
- c.) so humans do not get electrocuted.
- **b.**) the copper inside the wire is a conductor
- d.) All of the above are reasons to use
 - plastic/rubber around the wires.

7.) What scientific principle is being tested if Oliver throws rocks and baseballs up in the sky and they fall back to earth?

- h.) mass
- i.) solubility

j.) gravity

k.) density

(12 to 15 minutes, maximum) Name:

1.) Shown below is white, visible light as it travels through a glass triangular prism. It separates into seven colors (ROYGBIV) - Red, Orange, Yellow, Green, Blue, Indigo and Violet as it travels through the glass prism. This is an example of refraction since the light is bent by the glass prism.



Which answer choice is NOT an example of refraction but of reflection?

- a.) when light bounces back from a mirror c.) when light enters your eyeglasses
- **b.**) when light goes into a raindropforming a rainbow **d.**) when light goes into water
- 2.) A animal skull has sharp and flat teeth. What type of animal was it (most likely) when it was alive?
 - h.) omnivore j.) skullivore
 - i.) herbivore k.) carnivore
- 3.) The temperature of a glass of water is 26° Celsius. How many degrees must the water temperature increase to reach water's boiling temperature?
 - a.) 26° Celsius
 - b.) 32° Celsius

The Electrical Circuit shown in the diagram below will be used to answer questions 4-6.



- 4.) What light will NOT come on in this circuit as it is shown above?
 - a.) Light # 1
 - **b.)** Light # 2

c.) Light # 3

- d.) All of the lights will not shine light or work
- 5.) IF the switch were Closed, what lights will light up?
 - h.) Light #1
 - i.) Light # 2

- j.) Light # 3
- k.) All of the lights will shine light or work

6.) Why is rubber or plastic wrapped around the copper (metal) in the wires in the circuit shown above?

- a.) rubber and plastic are insulators
- c.) so humans do not get electrocuted.
- b.) the copper inside the wire is a conductor
- d.) All of the above are reasons to use
- plastic/rubber around the wires.

7.) What scientific principle is being tested if a marble, cork and oil are all dumped into a very large graduated cylinder full of water?

- h.) mass
- i.) solubility

j.) gravity

k.) density

- d.) 45° Celsius
- c.) 74° Celsius

(12 to 15 minutes, maximum)

- Name:
- 1.) Shown below is a light ray striking a mirror. What direction will the ray be reflected from the mirror?



- - h.) copper i.) air

- i.) rubber k.) human being
- 3.) Some organisms like mushrooms break down dead animals. How does this function benefit plants?
 - a.) through photosynthesis
 - b.) by getting rid of a diseased animal

- c.) by returning nutrients to the soil
- d.) by killing predators to plants

The Electrical Circuit shown in the diagram below will be used to answer questions 4-7.



4.) What light will NOT come on in this circuit as it is shown above? Think why!!!

a.) Light #1 c.) Light # 3 **b.)** Light # 2 d.) All of the lights will not shine light or work

5.) IF the switch were Open, what lights will light up?

h.) Light #1 j.) Light # 3 i.) Light # 2 k.) All of the lights will not shine light or work

6.) When the switch is in the position shown above, the circuit is called a

- a.) complete or closed circuit c.) a open circuit
- **b.)** insulated circuit d.) a conducted circuit
- 7.) Why does the electricity flow through the wire?
 - a.) the metal/copper is a conductor c.) the plastic that surrounds the wire is round
 - **b.**) electricity is all about sound energy d.) the plastic is an insulator

8.) Which of these answers best demonstrates reflection of light?

- h.) Looking though a glass fish bowl
- i.) Looking at the sun's radiant energy
- j.) Looking at my image on a car window
- k.) All are examples of refraction

9.) The 'rises' in the and it 'sets' in the _____. Use: North, East, South, or West

(12 to 15 minutes, maximum)

1.) Shown below is a light ray striking a mirror. What direction will the ray be reflected from the mirror?

Name:



2.) Which item below is the best conductor of electricity and heat?

- h.) copper
- i.) air

3.) In the Water Cycle, which stage is AFTER the evaporation of water from the ocean or a lake?

- a.) run-off of water down a hill
- b.) a downpour of rain over land
- **d.**) the delta forming in the river

c.) the formation of clouds (condensation)

The Electrical Circuit shown in the diagram below will be used to answer questions 4-6.



4.) What light or motor will NOT come on in this circuit as it is shown above?

a.) Light #1
b.) Light #2
c.) Motor
d.) All of the lights will not shine light or work

5.) IF the switch were Open, what lights or motor will shine or work?

- h.) Light # 1 j.) Motor
- i.) Light # 2 k.) All of the lights will not shine light or work

6.) When the switch is in the position shown above, the circuit is called a _____

a.) complete or closed circuitc.) an open circuitb.) insulated circuitd.) a conducted circuit

7.) Which of these answers best demonstrates refraction of light?

- h.) Looking at oneself in the mirror j.) Looking at my image on a metal surface
- i.) Light bouncing off the shingles on a house
- 8.) Dogs run around the park to get exercise. They also drink water to satisfy their thirst. They do small tricks like 'shaking' their paw at people walking by to get a dog snack. They also sleep under the trees in the shade when they are tired. What is a learned behavior in the dog's busy day?
 - a.) dogs sleeping under trees c.) de
 - b.) dogs running around the park
- c.) dogs drinking water
- d.) dogs doing small tricks for food

k.) wearing eyeglasses to see better

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j.) rubber k.) human being

(12 to 15 minutes, maximum)

1.) Shown below is a light ray striking a convex *GLASS* lens. What will happen to the light rays as they proceed through the glass lens? (Hint: Draw them.)

Name:



- a.) The light rays will REFLECT outward
- b.) The light rays will REFRACT outward
- 2.) Amanda wants to see the sunset. Which side of the house should she look out the window?
 - h.) north i.) east

3.) In the Water Cycle, which stage is AFTER the precipitation of water from a cloud?

- a.) run-off of water down a hill
- b.) a downpour of rain over land

c.) the formation of clouds (condensation)

c.) The light rays will REFRACT inward

d.) The light rays will REFLECT inward

d.) the delta forming in the river

j.) west

k.) south

The Magnet shown in the diagram below will be used to answer questions 4 and 5.



4.) In what location on the magnet does it have the most ability to repel or attract metal objects?

 a.) Point # 1
 c.) Point # 3

 b.) Point # 2
 d.) Point # 4

5.) Since the EARTH is a big magnet, where is the magnetic attraction the strongest on our planet? (Think)

- h.) at the Equator j.) nearest the moon
- i.) at the North and South Poles k.) near the top of the mountains

6.) Which of these answers best demonstrates <u>reflection</u> of light?

- h.) Looking at your image in shiny metal
- j.) looking at a rainbow in the sky

k.) wearing a baseball cap

- i.) refracting light with a telescope
- 7.) Monkeys at the zoo are fun to watch. They have black fur and brown colored eyes. They can use a stick to defend themselves against predators. They like to make loud and interesting sounds, too. What is a learned behavior in the monkey's day at the zoo?
 - a.) monkeys have black fur and brown eyes
 - **b.)** monkeys use sticks to defend themselves
- c.) monkeys make loud and interesting sounds
- d.) monkeys think about other monkeys
- 8.) In problem 7, what is an inherited trait for the monkeys? _

(12 to 15 minutes, maximum)

1.) Shown below is a light ray striking a concave GLASS lens. What will happen to the light rays as they proceed through the glass lens? (Hint: Draw them.)

Name:



- a.) The light rays will REFLECT outward
- b.) The light rays will REFRACT outward
- 2.) Amanda wants to see the sun rise. Which side of the house should she look out the window?
 - h.) north

i.) east

- i.) west
- k.) south
- 3.) In the Rock Cycle, which type of rock will fossils most likely be formed?
 - a.) metamorphic rocks due to heat and pressure
 - b.) sedimentary rocks due to compaction of sand
- c.) igneous rocks due to lava flow
- d.) refraction of light on the beach

The two magnets shown in the diagram below will be used to answer questions 4, 5, and 6.



4.) In what location on the magnet does it have the most ability to repel or attract metal objects?

a.) Point #1

c.) Point # 3

b.) Point # 2

d.) Point # 4

5.) Since the EARTH is a big magnet, where is the magnetic attraction the strongest on our planet? (Think)

- h.) at the Equator j.) nearest the moon i.) at the North and South Poles
 - k.) near the top of the mountains

6.) As an iron object is place farther and farther from a magnet, the magnet's 'magnetic' field becomes _____.

- a.) stronger
- c.) the strength of the magnet does not change

b) weaker

- d.) Not Here
- 7.) Owls are nocturnal predators that hunt mostly at night. The owls hunt mice at a nearby farmyard where the farmer continually drops small amounts of wheat when he is unloading grain. The owl always flies to the farmyard first to see if there are mice to eat. What is a learned behavior the owl's hunt?
 - a.) the owl is a nocturnal hunter
 - **b.**) the owl is a predator

- c.) the mice are not very intelligent
- d.) the owl hunts where mice gather to feed
- 8.) In problem 7, what is an inherited trait for the owls? _____

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c.) The light rays will REFRACT inward d.) The light rays will REFLECT inward

(12 to 15 minutes, maximum)

Name:



- **b.**) **One** 1 d.) Three - 3
- 2.) Scientists observe squirrels dropping nuts with hard shells from high tree branches to the ground below to break open the hard shells. The squirrels scamper down to the ground and eat the nuts after the shell has been cracked open. Which of these investigations would best help the scientists determine whether this skill is a learned behavior or an inherited skill?
 - h.) Determining what sizes and kinds of nuts are most often eaten by squirrels
 - i.) Determining the type of shells that are used by squirrels
 - **j.**) Observing families of squirrels to determine if young squirrels also crack shells in the same way
 - k.) Raising young squirrels away from adult squirrels that crack nuts open by dropping them from trees

The ELECTROMAGNET shown in the diagram below will be used to answer questions 3, 4, and 5.



3.) In an electromagnet, the MORE wire coils wrapped around the nail makes the electromagnet _

a.) weaker

- c.) no effect
- **b.**) stronger d.) less

4.) A stronger electromagnet could be made shown in the picture IF _

- h.) a magnet is used instead of a nail
- j.) larger wires to carry more current are used i.) a bigger battery is used k.) ALL choices make a stronger Electromagnet
- 5.) An electromagnet works because when electric current flows through the wire,
 - a.) refraction is created around the wire c.) reflection of electric current is created
 - b) a magnetic field is created around the wire d.) Not Here
- 6.) Birds eat out of bird feeders and make their nests on the roofs of houses. This behavior from the birds is a very good example of the bird's ability to _____
 - a.) live and eat for free
- c.) a refraction of the bird's evesight
- **b.**) adapt to changes in their environment
- d.) an inherited behavior from their parent
- 7.) True or False. The higher the temperature of the water the slower the water will evaporate.
- 8.) True or False. A person's mass is unchanged from the Earth to the Moon, but their weight changes.



- 2.) In the circuit above, what would happen if one of the batteries was flipped around so the two positive ends were facing one another?
- **3.**) Many students are confused between the difference of weather and climate. What is an example of weather and not climate?
 - h.) The temperatures are always hot like this every summer for the last twenty years.
 - i.) It was very hot yesterday and it is even hotter today.
 - j.) Reading the temperatures off a chart for a 3 month period that has not changed in fifty years.
 - k.) Climate is short-term and weather is a long-term condition over many, many years.

The ELECTROMAGNET shown in the diagram below will be used to answer questions 4 through 7.

Batter Wire Wire Nail Coiled Wire Around Nail

- 4.) In an electromagnet, the LESS wire coils wrapped around the nail makes the electromagnet ______.
 - a.) weaker c.) no effect
 - b.) stronger d.) less
- 5.) A stronger electromagnet could be made shown in the picture IF _
 - h.) a magnet is used instead of a nail j.) larger wires to carry more current
 - i.) a bigger battery is used k.) ALL choices make a stronger Electromagnet
- 6.) An electromagnet works because when electric current flows through the wire, _____
 - a.) refraction is created around the wire
- c.) reflection of electric current is created
- b) a magnetic field is created around the wire
- ire d.) Not Here
- 7.) How do we make the electromagnet not work?
- 8.) Two ice cubes are placed on separate plates. One ice cube has a mass of 50 grams and the other ice cube has a mass of 180 grams. Which result would be the same for both ice cubes?
 - a.) the time it takes for each to melt to liquid c.) the total volume of each cube
 - **b.**) the temperature at which each cube melted **d.**) the amount of liquid from each ice cube
- 9.) True or False. My mass is the same on the Earth and Moon, but my weight changes.
- **10.)** True or False. Children adapt to their school environments depending on if school and classroom rules are enforced and children are held accountable for their conduct.

5th Grade Science Spring Review Warm-Up Number 42 (12 to 15 minutes, maximum) Name: _____

1.) A river falls over a high cliff creating a cascading waterfall. At the bottom of the waterfall a couple friends build a big wheel that is turned by the falling water. This is an example of what type of energy?

A.) solar B.) thermal C.) mechanical D.) sound

2.) The graph shows the speed of a ball as it is dropped from a building that is 80 feet tall.



If the ball continues to fall to the ground, what will happen to the Ball Speed according to the graph as it falls the last 40 feet to the ground (at 0 feet)? (Think!!!!)

- A.) The speed of the ball will stay the same.
- **B.)** The speed of the ball will decrease.
- C.) The speed of the ball will increase.
- D.) The speed of the ball will decrease then it will decrease.
- **3.**) Many students are confused between the difference of weather and climate. What is an example of climate and NOT weather?
 - H.) The temperatures are always hot like this every summer for the last twenty years.
 - I.) The day is so cold.
 - J.) Recording the temperature at the beach every day for one week.
 - K.) Two friends decide to meet in a month on a Saturday, if the temperature is above 30° C.
- **4.**) Juan built an electromagnet in science class. If he wanted to make the most powerful electromagnet possible, he should do what of the following?
 - A.) Use thicker copper wires C.) coiled the wire many times around the nail
 - **B.**) Use a large battery **D.**) He should do all of these choices.
- 5.) The temperature of a glass of water is 76° C. How many degrees must change for the glass of water to be brought to the boiling point of water?

| H.) | 76° C | J.) 100° C |
|-------------|-------|------------|
| I.) | 24° C | K.) 0° C |

- 6.) Two ice cubes are placed on separate plates. One ice cube has an equivalent liquid amount of 50 liters and the other ice cube has an equivalent liquid amount of 90 liters. Which result would be the same for both ice cubes?
 - A.) the time it takes for each to melt to liquid C.) the total volume of each cube
 - **B.**) the temperature at which each cube melted **D.**) the amount of liquid from each ice cube

5th Grade Science Spring Review Warm-Up Number 43 (12 to 15 minutes, maximum) Name: _____

1.) A toaster cord is plugged into the wall socket. This is an example of what type of energy?

A.) solar B.) thermal C.) mechanical D.) electrical

2.) The graph shows the distance a cannon ball travels as it is shot out of a cannon.



If the ball continues to move in the direction shown on the graph, what will happen to the distance of the cannon ball (according to the graph) as it falls the last 20 feet to the ground (at 50 feet)?

- A.) The distance of the canon ball will stay the same.
- **B.**) The distance of the cannon ball will decrease.
- C.) The distance of the cannon ball will increase.
- **D.**) The distance of the cannon ball will decrease then it will decrease.
- **3.**) Many students are confused between the difference of weather and climate. What is an example of climate and NOT weather?
 - H.) The temperatures are always cold during the winter for the last hundred years.
 - I.) The day is so warm and balmy.
 - J.) Noticing the weather for the last two Saturdays.
 - K.) The fifth grade schedule a picnic since the temperature is 31° C.
- 4.) Pedro put salt tablets in a bottle of water. What happened to the salt tablets placed in the water?
 - A.) The salt tablets evaporated C.) The salt tablets dissolved in the water
 - B.) The salt tablets are absorbed into the bottle D.) Impossible to say what happened to the salt
- 5.) The temperature of a glass of water is 34° C. How many degrees must change for the glass of water to be brought to the freezing point of water?

| H.) | 66° C | J.) 100° C |
|-------------|-------|------------|
| I.) | 34° C | K.) 0° C |

- 6.) Two glasses of water are placed on the kitchen counter. One glass of water contains 125 milliliters and the other glass of water contains amount of 290 milliliters. Which result is the same for both glasses of water?
 - A.) the time it takes for each to evaporate
- C.) the mass of each glass of water
- B.) the temperature at that each glass of D.) the amount of thermal energy to boil each of water will boil

5th Grade Science Spring Review Warm-Up Number 44 (12 to 15 minutes, maximum) Name:

1.) The sun heats panels placed on a roof that power the house. This is an example of what type of energy?

C.) mechanical **D.)** electrical A.) solar **B.) thermal**

2.) The graph shows the movement of a roller coaster as it travels down the tracks.



If the Roller Coaster continues to travel in the direction shown on the graph, what will happen to the Track Distance (according to the graph) as it travels the last 20 feet to the top of the hill (at 55 feet)?

- H.) The Track Distance will stay the same.
- I.) The Track Distance will decrease
- The Track Distance will increase. **J**.)
- K.) The Track Distance will decrease then it will decrease.
- 3.) Large plastic tubes are placed vertically deep into the ground that allow the transfer of heat from underwater thermal streams to provide heat to homes. This is an example of using what energy resource?

C.) geothermal energy A.) fossil fuels **B.) hydroelectric energy D.**) solar energy

- 4.) A consumer eats what type of food?
 - H.) only carnivores J.) producers K.) None of the above I.) only omnivores
- 5.) Due to pollution from fossil fuels, the City of Dallas decided to begin using a new form of energy more to power its homes and businesses. What ALTERNATIVE energy resource might they decide to use?
 - A.) burning logs in fireplaces
- C.) using biofuels to generate electricity
- **D.**) using a new coal plant to generate electricity **B.**) fracking natural gas and oil in limestone
- 6.) A favorite canned drink of Pablo's was placed in the refrigerator at the beginning of 5th grade. In May, he discovered the treat, but the directions stated, "Shake well before drinking." Why these directions?
 - H.) the ingredients have different densities
- J.) the ingredients will always be a mixture
- I.) the ingredients easily become a solution
- K.) the ingredients are now hard rock
- 7.) A farmer bought a new plant from China and planted it in South Dakota so his cows would have plenty of grass to eat. However, the new plant reproduced rapidly and soon covered all his fields as well as his neighbors' farms. What is a likely effect that this new plant from China will have on the native plants in that part of South Dakota?

A.) An increase of native plants **B.**) A decrease of native plants **C.**) No effect on native plants Copyright © Latrese Smith and Blaine Helwig, 2014. All Rights Reserved 5th Grade Science Spring Review Warm-Up Number 45 (10 to 15 minutes, maximum) Name: _____

1.) A toaster burns bread with its heating elements. This is an example of what type of energy?

A.) solarB.) thermalC.) mechanicalD.) electrical2.) The graph shows the flight of an Arrow as it flies through the air.



If the arrow continues to fly in the direction shown on the graph, what will happen to the Arrow Velocity (according to the graph) as it flies the last 20 feet (at 55 feet)?

- H.) The Arrow Velocity will stay the same.
- J.) The Arrow Velocity will increase.
- I.) The Arrow Velocity will decrease K.) The Arrow Velocity will decrease then decrease.
- 3.) Given the following information in the table.

| Diets | of | Animals |
|-------|----|---------|
| | | |

| Type of Animal | Foods Eaten |
|-----------------------|--------------------------|
| Coyotes | Mice, Hawks, Rabbits |
| Mice | Snails, Grass, Leaves |
| Blue Jays | Mice, Worms, Bugs |
| Snails | Grass |
| Hawks | Mice, Rabbits, Blue Jays |

- A.) Coyotes Mice Snails
- B.) Blue Jay → Hawks → Rabbits
- C.) Snails Mice Coyotes
- D.) Snails ------ Hawks

4.) Which is an example of solar energy being absorbed?

- H.) Run off of water from mountains and plains toward rivers
- I.) Precipitation as the water falls on the land
- J.) The breaking down of rocks by weathering with plant roots, wind, water and ice
- K.) The heating of lake and ocean water that results in the evaporation of water

5.) A glacier is a heavy, massive ice block. What effect will a glacier have on a valley as it moves over land?

- A.) It will make the valley walls very steep C.) It will make the valley river flow uphill
- **B.**) It will flatten the valley walls into a "U" shape **D.**) None of the above

Science STAAR Preps

5th Grade

Annotated Solutions

5th Grade Science Spring Review Warm-Up Number 1 9 2 Name: ANSWER KEY (8 to 12 minutes, maximum) 1.) Name the three types of fossil fuels: oil (petroleum), coal, natural gas 2.) Where do fossil fuels come from (what were they made of)? organisms (small plants and animals) that live long ago. 3.) How long (time) did it take fossil fuels to form? millions of years 4.) Fossil Fuels are which type of resource? a.) renewable resource c.) inexhaustible resource sun and wind (will not be used up for a b.) nonrenewable resource time - millions d.) none of the above 🔀 of years) 5.) We use fossil fuels for energy to run our cars and produce electricity for our homes and schools. What is the problem when we use fossil fuels like coal, oil and natural gas? they pollute (conteminate) the air 6.) Fossils are most likely found in what type of rock? (c.) sedimentary rock -> depos. trun compact over time in a.) igneous rock - volcanic b.) metamorphic rock heat and pressure formed underground 7.) A sedimentary rock can change over time into a metamorphic or an igneous rock. As a matter of fact, the rock cycle means that any type of rock can change in to any other type of rock. Are these statements true or false? <u>YLS - any rock can change</u> into one of the other <u>On Questions 8-10</u> - USE: inexhaustible resource, non regarable resource, renewable resource 8.) The sun and wind are what type of resources? (Rexhaustble 9.) Soil, grass, animals, trees are what type of resources? renewable 10.) Gold, fossil fuels, aluminum and silver are what type of resources? Now - Renewable Copyright, C Latrese Smith and Blaine Helwig, 2014. All Rights Reserved

5th Grade Science Spring Review Warm-Up Number 3 5 4 Name: ANSWER SOLUTIONS (8 to 12 minutes, maximum) break-down 1.) There are 4 ways to weather rocks (Name them): 2) 3) ce (water expends 10% when freezing + @ tree/plant routs 2.) What scientific word describes the movement of rocks and pebbles? erosion 3.) Why is it important that soil is a renewable resource? we would starve to cleath - nothing to 4.) Why don't erosion, weathering and fire happen on the moon? c.) the moon is not as big as earth a.) the moon is too far away (b.) the moon has no atmosphere d.) none of the above no wind, weter, oxygen 5.) Why are we trying to use solar energy, wind energy and hydroelectric power instead of fossil fuels as our major energy source to power our homes and cars in the United States? they are "clean" energy forms - DO NOT POLLIE ENVIRONMENT 6.) How does sand and small pebbles get deposited on the beach OR at the delta of a river? (.) the waves or river water carried the sand departe a.) the wind d.) electricity can electrocute through a conductor b.) the sun heated the water 7.) There was a large rock on the beach in 2000, but it was much, much smaller in 2014. What happened to the rock over the last 14 years? weathered by weves and wind with increased 1 Kinetic energy then erusion-corried away 8.) <u>All amounts</u> of water <u>boil</u> at what temperature in Celsius? 100°C evaporates faster with increased temperature 9.) All amounts of water freeze at what temperature in Celsius? 0°C 10.) Did you understand questions 8 and 9? Let's check. Ms. Smith takes her daughter swimming in Lake Travis (a very large lake). However, there is a small puddle of water on the sidewalk outside after a recent rain. If each amount of water is heated, at what temperature will the water boil for both Lake Travis and the puddle of water? / 00 °C

more hants negound to boil lake Trais, but it is shill near Copyright, © Latrese Smith and Blaine Helwig, 2014. All Rights Reserved 100°C. Besic properly of matter.

| | 5 th Grade Science Spring Review Warm-Up Number 5 |
|---------|--|
| | (8 to 12 minutes, maximum) Name: Solonows/Key |
| | showsk down |
| | 1.) There are 4 ways to weather rocks (Name them): D Wayer & wind |
| | 3) Ice (4) PLANT AND THE ROOTS |
| | 2.) Name the 3 types of fossil fuels? OII (petruleum), coal, and the Matural |
| | 3.) What is the problem that is created when we use fossil fuels? The pollula air and |
| | 4.) Why do not erosion, weathering and fire happen on the moon but they all occur on earth? |
| | a.) the moon is too far away c.) the moon is not as big as earth |
| | by the moon has no atmosphere d.) none of the above |
| | 5.) Why are we trying to use <u>solar energy, wind energy and hydroelectric power</u> instead of fossil fuels as our major energy source to power our homes and cars in the United States? |
| | clean energy - no pollution (hydro = water |
| | 6.) How does sand and small pebbles get <u>deposited</u> on the beach OR at the <u>delta</u> of a river? |
| | a.) the wind (c.)) the waves or river water carried the sand |
| | b.) the sun heated the water d.) electricity can electrocute through a conductor |
| | 7.) There was a large rock on the beach in 1962, but it was much, much smaller in 2010. What |
| 2 | happened to the rock over the last 48 years? weathaned, Then evolut (ension) |
| 1 3 | - took sand away |
| V Z L | 8.) <u>All amounts</u> of water <u>boil</u> at what temperature in Celsius? <u>/or*c</u> |
| boil | 9.) <u>All amounts</u> of water <u>freeze</u> at what temperature in Celsius? <u>0°C</u> |
| 5 4 3 | 5 10) Jorge looked at the following chart below. What is the boiling temperature of the 25 ml |
| 3, a | water if the 50 ml glass of water boiled at 100 degrees Celsius? |
| 22 23 | still boils@ 100 C |
| 200 | Amount of Water Temperature Amount of Water Temperature |
| | 50 ML 25 degrees Celsius 25 ML 10 degrees Celsius |
| Proprie | |
| 324 | a.) 50 degrees Celsius c.) 12.5 degrees Celsius |
| 1 2 2 | b.) 75 degrees Celsius (d.) 100 degrees Celsius |
| A T T | Copyright, © Latrese Smith and Blaine Helwig, 2014. All Rights Reserved |
| an | t = 2 + 2 = 1 |
| | |

| 5 ^m Grade Science Sprin | ng Review Warm | -Up Number 6 |
|---|--|--|
| (8 to 12 minutes, maximum) | Name: Ker | 7 |
| .) A white polar bear (predator) covers his by a seal (prey). What is this called when | s black nose with h en the polar bear i | is white paw so it is not seen s covering his black nose? |
| a.) being smart b.) holding his breath | | (c.) using camouflage d.) using migration |
| 2.) Name the nine planets in order from the | e Sun outward? | |
| M, V, E, Mars, J, | S, U, N | 2 |
| 3.) Which planet makes the quickest orbit a | around the sun? _ | Mercury |
| 4.) Which planet makes the longest orbit an | round the sun? | Neptine |
| 5.) What type of rock is most likely to form | in the <u>delta</u> of a ri | iver over a long period of time? |
| a.) igneous rock carried | c.) metamor | phic rock |
| b.) sedimentary rock | d.) none of the | he above meets the sea |
| 5.) Why do fossils usually form in a sedimer animal clies. falls in san more sediment falls on - then comparents aver me 5.) What object is found at the center of ou | ntary rock? | dunps sand due to gran is a big ball of gas? |
| a.) the moon c. | .) Jupiter | e.) Saturn |
| (b.) the sun (Suley d | .) Earth | f.) the Principal |
| 7.) Your science teacher lights a candle. The light or flame slowly goes out. Why did | nen, she places a gl the candle's flam | ass over the candle. The candle's e/light go out? |
| No prygen=> must | have orgg | ice to burn |
| 3.) Jonathan listed types of energy on the l | eft. Please match | the right definition with the energy |
| 1.) radiant energy | a.) st | ored energy |
| 2.) thermal energy | b.) li | ght bulb, fire, or sun light |
| 3.) 🔼 potential energy | c.) he | eat |
| | | |
| 4.) <u> </u> | d.) fla | ow of electrons in a conductor |

5th Grade Science Spring Review Warm-Up Number 7 Name: Key Sull (8 to 12 minutes, maximum) 1.) A soldier wears all green to go into the jungle on a training mission. Green allows him to blend into the surroundings with all the leaves and plants. What science word is he using? a.) being smart c.) holding his breath (b) using camouflage d.) using migration 2.) Name the nine planets in order from the Sun outward? E, MARS, S, S, U, L 3.) Which planet makes the quickest orbit around the sun? Mercury 4.) Which planet makes the longest orbit around the sun? 5.) What type of rock is most likely to form in the delta of a river over a long period of time? a.) igneous rock c.) sedimentary rock b.) metamorphic rock d.) none of the above 5.) Why do fossils usually form in a sedimentary rock? organism gets burged in redement => conpach 6.) What object is found at the center of our solar system and is a big ball of gas? a.) the moon c.) Jupiter e.) Saturn b.) the sun d.) Earth f.) the Principal 7.) Your science teacher lights a candle. Then, she places a glass over the candle. The candle's light or flame slowly goes out. Why did the candle's flame/light go out? must have Ope 8.) Jonathan listed types of energy on the left. Please match the right definition with the energy. 1.) E radiant energy a.) heat 2.) A thermal energy b.) speeding train or moving energy potential energy c.) stored energy kinetic energy d.) flow of electrons in a conductor electrical energy e.) light bulb, fire, or sun light

| 5 th Grade Science Spring Review Warm-Up Number 8 |
|---|
| (8 to 12 minutes, maximum) Name: Leg Solutions |
| An animal dies in the woods. The animal's body is broken down by what organisms? a.) scavenger - 2013 things if did b.) decomposers - warms c.) camouflage - blands d.) migration - mean of greeies. A red crayon is thrown in a frying pan. It melts. What type of change is taking place? |
| a.) chemical change property change () c.) physical change d.) color change |
| 3.) All water evaporates at temperatures above 0 degrees Celsius? True/False True/False |
| 4.) In question 3.) above, ORDER from <u>greatest to least</u> , the temperatures that water evaporates the <u>fastest</u> . Given the following temperatures: 95 C , 82 C, 3 C, 14 C, 45 C, 100 C, 23 C. |
| 100°C, 95°C, 82°C, 45°C, 23°C, 14°C, 3°C |
| 5.) From question 3 and 4.), what type of energy increases with increased temperature or heat? |
| a.) potential energy b.) radiant energy (1) kinetic energy (2) kinetic energy (3) kinetic energy |
| 5.) Jessica digs a hole in the ground. The deeper she digs into the earth, the soil is |
| a.) younger b) older c.) all soil is the same age d.) impossible to tell the age of soil |
| 6.) Which is the largest planet in the solar system? |
| a.) Venus b.) Mars d.) Farth |
| 7.) As the earth rotates on its axis one time, we get |
| a.) day and nightc.) a lunar eclipseb.) a solar eclipsed.) deposition |
| 8.) Your mother cuts a large hunk cheese in two separate pieces. This is what type of a change? |
| a.) chemical change b.) property change Still C.) physical change d.) color change |
| 9.) How long does it take |
| A.) The Earth to <u>rotate</u> one time on its axis: <u>IDM = 24 hours</u> B.) The Moon to make one <u>revolution</u> around the Earth: <u>/maybes 4 head</u> C.) The Earth to make one <u>revolution</u> around the Sun: <u>/ year</u> D.) And, how many revolutions does the moon make around the Earth in ONE year: <u>/ 7</u>. |
| (12 multus in a year) |
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| 5 th Grade Science Spring | g Review Warm-Up Number 9 |
|---|--|
| (8 to 12 minutes, maximum) | Name: Key/Sol Am |
| 1.) A vulture eats dead animals that it did no | ot kill. The vulture is called a |
| a.) scavenger b.) decomposers | c.) camouflage d.) migration |
| 2.) A red crayon is thrown in a frying pan un | ntil it is burned. What is this change called? |
| a.) chemical change b.) property change | c.) physical change d.) color change |
| 3.) Name two inexhaustible resources: 🗠 ι | nd, sur |
| 4.) In science, a bowl of different kinds of fru | uit is an example of a . |
| a) suspension | c) solution |
| (b) mixture -> Expanded in | d.) something good to eat |
| 5.) A fish fossil is found 10 feet below the sur Which fossil is older? | rface and a shell fossil 20 feet below the surface. |
| a.) fish fossil | c.) both are the same age |
| (b) shell fossil | d.) none of the above |
| 6.) Which of the following objects <u>rotate</u> ? | nee mon allate |
| a.) Earth b.) Sun | c.) Moon - Per (tark to ver the (d.)) the Earth, Sun and Moon all rotate |
| 7.) As the earth rotates on its axis one time, w | ve get |
| (a.) day and night | c.) a lunar eclipse |
| b.) a solar eclipse | d.) deposition |
| 8.) The metal on my car is rusting and slowi | ng causing holes. This is what type of a change? |
| (a.) chemical change | c.) physical change |
| b.) property change we tal dat | d.) color change |
| 9.) How long does it take | |
| A.) The Earth to <u>rotate</u> one time on its as B.) The Moon to make one revolution ar | $\frac{1}{2} p_{15} \gamma = 2\gamma h_{0} \gamma \gamma$ |
| C.) The Earth to make one <u>revolution</u> ar | ound the Sun: 1yer = 365 by day |
| D.) And, how many revolutions does the | moon make around the Earth in ONE year: 12 |
| 10.) An oil tanker hit a rocky reef and oil lea | ked out in to the ocean. The oil is on top of the wate |
| causing two layers of fluids, one with oil | and one with water below it. In science, this |
| situation best describes a supersive | 01 |
| a.) suspension | c.) solution |
| b.) mixture 420 - | d.) a lot of dead fish |

| 5 th Grade Science Spring Review | Warm-Up Number 10 |
|--|--|
| (8 to 12 minutes, maximum) Nam | ne: Solutions/Ky |
| 1.) Birds fly south for the winter for warmer weat | ther. This animal movement is called |
| a.) scavenger b.) decomposers | c.) camouflage (d.) migration - movement of underly) animets (including) |
| 2.) A glass of water is left outside on a hot day and example of what type of change? | d it evaporates after 12 hours. This is an |
| a.) chemical change b.) property change | c.) physical change |
| 3.) Minerals and fossil fuels are examples of what | type resource? Now-Remember |
| 4.) In science, a can of Mt. Dew is an example of a | mixed contents |
| a.) suspension | (c,) solution - succeed . |
| b.) mixture | d.) a drink with far too much sugar |
| 5.) Jesus found a fossil of a small dinosaur. Insid found the fossil? | e what type of rock is the most likely that Jesus |
| a.) metamorphic rock (b.) sedimentary rock - sediment die | c.) igneous rock d.) none of the above |
| 6.) Which of the following objects rotate? | always Lee. same tac |
| a.) Earth b.) Sun | c.) Moon (geosynchromes Orbit) (d.) the Earth, Sun and Moon all rotate |
| 7.) The earth revolves around the sun one comple | te revolution, we get |
| a.) solar eclipse b.) a month of time | c.) one year of timed.) day and night |
| 8.) Which of these best describes freezing from the | e first box to the second box? |
| a.) Freezery -> Mel- | (c.) Frozen-s Frozen Not maring |
| b.) design Houng (liged) to stationing (freezing) | d.) (100°C) |
| 9.) How long does it take | |
| A.) The Moon to make one <u>revolution</u> around B.) The Earth to <u>rotate</u> one time on its axis: _ C.) The Earth to make one <u>revolution</u> around D.) And, how many revolutions does the moon | the Earth 1 Month= 4 weeks 30 days 24 hours => 1 day the Sun: 1 year => 365 14 days a make around the Earth in ONE year: 12 |

10.) A beaker is has three layers of fluid. Oil is the top layer, vinegar is the next layer, and water is the bottom layer. We call this situation a <u>Suspension</u>

Fill in the blank with one of the following: mixture, suspension or a solution.





| o drawe Selence Spring Herrer | warm-Op Number 15 |
|--|---|
| (12 to 15 minutes, maximum) No | me: Key/Solution |
| A river brings sediment and deposits it in the delta of | the river. How did the sediment get into the rive |
| a.) from the erosion of mountains and plains b.) from meteors that hit the earth | c.) from sand dunes in the deserts d.) from an ice storm upstream |
| A bat flies at very high speeds and turns quickly by id | lentifying objects in their flight path by |
| a.) great eyesight (b.) echolocation using sound waves | c.) following very closely to the lead batd.) none of the above |
| Whales communicate with other whales in the ocean h | by using |
| a.) their dorsal fins b.) flags found on the bottom of the ocean | (c.) their sound waves traveling through the ward.) none of the above |
| What causes meteors to burn up in the earth's atmos | phere? Custon or rubbing together |
| a.) the sun burns up their mass b.) the friction between the earth's atmosphe c.) the moon's gravitational pull on the meteor d.) no meteors ever reach the earth's surface | (hands, for arcupe) => heat re and the surface of the meteor causes heat or burns up the meteor the closer it gets to earth |
| What causes raindrops, meteors, and baseballs throw | vn in air to fall or move toward earth? |
| a.) friction b.) thrust | (c) gravity => holds all to earth d.) sound Sun => plants conth=> ansun |
| On what type of floor surface would <u>friction</u> be <u>high</u> s | o a person would not slide very far? |
| a.) a tile floor 1 1 move (5.) a rough carpet floor wyh frichw | c.) a tile floor covered with waterd.) a smooth wooden floor |
| A solar eclipse occurs when which of the following oc | cur? (Draw a picture) 🛭 🕝 🕝 |
| a.) the sun leaves the solar systemb.) the moon is between the earth and sun | c.) the sun is between the earth and moon d.) the earth is between the moon and sun |
| A <u>lunar eclipse</u> occurs when which of the following oc | cur? (Draw a picture) 🧭 宦 💿 |
| a.) the sun leaves the solar system b.) the moon is between the earth and sun | c.) the sun is between the earth and moon d.) the earth is between the moon and sun |
| If there is a new moon, <u>about</u> how many days until a f | full moon appears in the sky? |
| a.) 10 days 2 weeks 215 Days | c.) 30 days d.) 60 days |
| .) Soil is renewable. Which of the following help make soil back <u>nutrients</u> so grass, plants and crops can gree | soil a renewable resource and give the ow the following year? |

a.) manure (cow poop)

b.) decayed/dead plants and organisms

c.) fertilizer & buy @ Lowe's on theme (d.) All of the above make soil renewable

| 5 th Grade Science Spring Review | Warm-Up Number 14 |
|--|---|
| (12 to 15 minutes, maximum) No | ime: Key/Solution |
| .) An animal only comes out at night and sleeps during t | he day. What is this behavior called? |
| a.) diurnal day | c.) migration |
| b.) a night owl | d.)nocturnal night |
| .) All food chains and food webs all begin with what obje | ect? (Think) |
| a.) producer | c.) the Sun and its energy |
| b.) consumer | d.) photosynthesis earth - 1.22 |
|) Metamorphosis occurs with what type of animals or in | isects? (Photos jar husis) |
| a.) caterpillar to butterfly | (c.))both answers a.) and b.) |
| b.) tadpole to frog | d.) none of these answers for plotts |
|) What is the name of an animal that eats both plants a | nd animals? |
| a.) herbivore -> herb -> plant | Sete. |
| (b.) omnivore -> omni - all | |
| c.) carnivore => meat -> carne | |
| d.) nottoochoosey | |
|) A spaceship lifts off from earth in Florida. What forc | e tries to pull the ship back to earth? |
| a.) friction | c.) gravity |
| b.) thrust | d.) sound |
|) When two objects rub together creating friction, what | type of energy is present between the objects? |
| a.) sound energy rub hands | c.) potential energy |
| (b.) thermal energy together - hear | d.) kinetic energy |
| | e e early |
|) A solar eclipse occurs when which of the following occ | cur? (Draw a picture of earth, moon and sun) |
| a.) the sun leaves the solar system | (c.) the moon is between the earth and sun |
| b.) the sun is between the moon and earth | d.) the earth is between the moon and sun |
|) A <u>lunar eclipse</u> occurs when which of the following occ | Eur? (Draw a picture of earth, moon and sun) |
| a.) the sun leaves the solar system | c.) the sun is between the earth and moon |
| b.) the moon is between the earth and sun | (d.) the earth is between the moon and sun |
|) If there is a <u>new moon</u> , <u>about</u> how many days until and | other <u>new moon</u> appears in the sky? |
| a.) 10 days b.) 15 days | (c.) 30 days d.) 60 days |
| D.) Soil is renewable. Which of the following help make soil back rich <u>nutrients</u> so grass, plants and crops can | soil a renewable resource and give the grow the following year? |
| (a) manure (cow poop) | @ fertilizer (ALL') |
| b .) decayed/dead plants and organisms | (d.) All of the above make soil renewable |

| 5 th Grade Science Spring R | eview Warm-Up Number 15 |
|---|---|
| (12 to 15 minutes, maximum) | Name: Auswar / Kay/Sourion |
| 1.) Abbey is studying nocturnal predators. What is | s a characteristic of a successful focturnal predator? |
| a.) bright feathers b.) long legs | (c) big eyes => lets light in during d.) flat teeth the night Think: owes |
| Food Chain Diagram (Use the Diagram to answer o | questions 2 - 5 below) |
| Some line of interaction | Consumer Number 2 |
| XX | |
| and a start | |
| producer Consu | imer Number 1 |
| 2.) Which of the following choices should go in the l | box in the Food Chain Diagram above. |
| (a) producer to uses son to | c.) carnivore |
| b.) consumer food | d.) herbivore |
| 3.) What do the 'arrows' mean in the Food Chain D | Diagram? |
| a.) who is eating who | c.) the metamorphosis of a consumer |
| (b.) a transier of energy ~ chem? | d.) all plants need the sun |
| 4.) Consumer Number 1 in the Food Chain Diagram | n is an? |
| a.) omnivore b.) suniovore | () herbivore - enting plants |
| s.j sunovore | (is prey for consume |
| 5.) Consumer Number 2 in the Food Chain Diagram | n is a? + 2 |
| a.) omnivore b.) suniovore | c.) herbivore (d.) carnivore - predator |
| 5.) The first stage of the <u>metamorphosis</u> of a butterf | fly is? |
| a.) a larva or caterpillar | (Dan egg - laid by adult buttently |
| b.) an adult or butterfly | d.) a cocoon or pupa or chrysalis |
| 7.) What is the name of an animal that eats both pla | ants and animals? |
| a.) herbivore | c.) carnivore |
| | u.) hottobenoosey |
| 3.) If there is a full moon, <u>about</u> how many days unt | til a new moon appears in the sky? |
| a) 10 days 2 weeks = 15 | days c.) 30 days |
| 15 days لارط | d.) 60 days (Ground worken) |
| D.) People get drinkable water from <u>two</u> places. Nat | me them. Rivers/lakes and underground H20 |
| Hence, we cannot Copyright, © Lati pollute the ground => ends up i | rese Smith and Blaine Helwig, 2014. All Rights Reserved |
| ç | |



| 5 th Grade Science Spring Revie | w Warm-Up Number 17 | | | |
|--|--|--|--|--|
| (12 to 15 minutes, maximum) N | Name: Key/Socrion | | | |
| 1.) A raccoon sneaks into a house and finds stored cans to use his paws to pry open a can of food so he can ea and returns the next day to the kitchen for food? W | of food in the kitchen pantry. He figures out how at it. After eating 3 cans of food, the raccoon leave hat type of behavior is the raccoon demonstrating? | | | |
| a.) a canivore -Joke b.) inherited behavior -porent born with | c.) being really smart or clever (d.) learned behavior | | | |
| Food Web Diagram (Use the Diagram to answer question | ons 2 - 6 below) | | | |
| Animal Number 2 Animal Number | er 3 Animal Number 4 | | | |
| Sun E | | | | |
| Plant producer | umber 1 | | | |
| 2.) Which of the following choices should go in the box i | in the Food Web Diagram above. | | | |
| a.) a consumer | 📿 a producer | | | |
| b.) Animal Number 5 | d.) an herbivore | | | |
| 3.) What do the 'arrows' mean in the Food Web Diagra | m? | | | |
| a.) who is eating who | c.) the metamorphosis of a consumer | | | |
| b.) which animal likes another animal | (d) a transfer of energy | | | |
| 4.) Animal Number 3 in the Food Web Diagram is an | ? | | | |
| (a.) omnivore | c.) herbivore | | | |
| b.) suniovore | d.) carnivore | | | |
| 5.) Animal Number 4 in the Food Web Diagram is | ? | | | |
| (a.) a consumer | c.) prev | | | |
| b.) an herbivore | d.) hungry | | | |
| 6.) Animal Number 2 in the Food Web Diagram is | ? | | | |
| a.) the predator | c.) a prev | | | |
| (b) an herbivore | d.) hungry | | | |

7.) The stage of the metamorphosis of a butterfly when it makes a cocoon is also called _____?

a.) a larva or caterpillarc.) an eggb.) an adult or butterflyImage or chrysalis

8.) Esteban changes the oil on his car. He dumps the used oil on the ground instead of disposing of the oil in a recycle container. What is the problem the oil he dumped on the ground may cause the environment.

- a.) kill the grass and plants in the area
- b.) harm animals in the area

re)

 c.) pollute the groundwater beneath the ground
 d.) all of the above answers are possible problem: from the dumping of oil on the ground

| 5 th Grade Science Spring Revie | w Warm-Up Number 18 |
|--|---|
| (12 to 15 minutes, maximum) | Name: KEY/Solution |
| 1.) A mother cat had a litter of kittens. All of the kitten eyes are an example of | s had brown eyes like their mother. The brown |
| a.) a decomposer (b.) an inherited trait | c.) a learned behavior d.) none of the above |
| Food Web Diagram (Use the Diagram to answer question Animal Number 2 Animal Number Sorr Plant Number 1 | ons 2 - 6 below) ar 3 Animal Number 4 I Number 1 |
| 2.) How is Plant Number 1 using the sunlight in the Food | d Web Diagram above? |
| a.) making their own food b.) giving off or emitting oxygen | c.) absorbing or taking in carbon dioxide d.) all of the above |
| 3.) Animal Number 1 and Animal Number 2 are both ca | lled |
| (a.) an omnivore b) a decomposer | c.) an herbivore |
| 4.) Animal Number 4 in the Food Web Diagram is | d.) a carnivore |
| a) an omnivore b) a predator | d.) all of the above |
| 5.) All life of all animals and plants always begins in the | Food Web Diagram with? |
| a.) Animal Number 1 b.) Plant Number 1 | (c.)) the sun d.) producers |
| 6.) Animal Number 3 in the Food Web Diagram is | ? |
| a.) a predator b.) a producer | c.) both a prey and a consumer d.) an omnivore |
| 7.) The sun is made of, and the moon | is made out of? |
| a.) impossible for anyone to knowb.) both the sun and moon are made of gases | c) sun is made of gases and moon of dirt & rocks d.) sun is made of rocks and moon of gases |
| 8.) Humans get most of their drinkable water from river drinkable water from the <u>ocean</u> waters? | s/lakes and ground water. Why do we <u>not</u> get our |
| a.) the water is too deep b.) sharks and whales keep humans away | c.) the waters flow away from our shores d.) the high salt content in the ocean water causes dehydration in human beings |
| 9.) Name the three (3) layers of the earth. | martle, crust |
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| 5 th Grade Science Spring Review Warm-Up Number 19 | |
|--|-------------------------|
| (12 to 15 minutes, maximum) Name: Kay Socurow | |
| 1.) A seal balances a ball on its nose. What is this behavior called? | - |
| a.) a conductor b.) an inherited trait C.) a learned behavior d.) an insulator Skil | m.M. |
| Food Web Diagram (Use the Diagram to answer questions 2 - 6 below) | \sim |
| Animal Number 2 Animal Number 3 Animal Number 4 | |
| SER | |
| A A A A A A A A A A A A A A A A A A A | |
| Plant Number 1 Animal Number 1 | |
| 2.) How is Plant Number 1 using the sunlight in the Food Web Diagram above? | |
| a.) making their own food | eks |
| b.) uses the sunlight to drink water d.) absorbs Oxygen to the plant | |
| 3.) Animal Number 1 and Animal Number 2 are both called | |
| a.) omnivores | |
| b.) decomposers d.) carnivores | |
| 4.) Animal Number 4 in the Food web Diagram is | |
| b.) a predator (d.) all of the above | |
| 5.) All life of all animals and plants always begins in the Food Web Diagram with | _? |
| a.) Animal Number 1(C.) the sunb.) Plant Number 1d.) producers | |
| 6.) Animal Number 3 in the Food Web Diagram is? | |
| a.) a carnivore b.) a consumer ACC (d.) all of the above | |
| 7.) The sun is made of, and the moon is made out of? | |
| a.) impossible for anyone to know b.) both the sun and moon are made of gases c.) sun is made of gases and moon of dirt & d.) sun is made of rocks and moon of gases | & rocks s |
| 8.) On a field trip to a landfill or garbage dump, a fifth grader asks why they put a thick sheet of plast under the garbage so there is a plastic sheet or liner between the garbage and the soil beneath the l There is a reservoir of ground water directly underneath the garbage dump or landfill. Why do we the plastic liner under the landfill? | ic andfill. e use |
| a.) to hurt the soil and earthworms c.) so animals will not dig through the plane (b) to protect the groundwater from pollution d.) to protect the garbage from thieves | stic |
| 9.) Which layer of the earth is the thickest? Mendle Which layer of the earth does erosion occur? c | rust |
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| 5 th Grade Science Spring Re | wiew Warm-Up Number 20 |
|--|--|
| (12 to 15 minutes, maximum) | Name: KEY SOLUTIONS |
| 1.) It was foggy on Saturday morning. This is an exact this change called in science? | ample of water changing from a gas to water. What is usually temperature |
| b.) melting | d.) freezing by air expansion stand |
| Food Chain Diagram (Use the Diagram to answer q | uestions 2 - 6 below) |
| Suntz plants caterpillars | small birds hawks |
| The focus on we | web. vocabulary |
| 2.) Which organism (living thing) is necessary for al | I animals to be able to survive in the food chain diagram? |
| a.) hawks b.) small birds | c.) caterpillars (d.) plants - remove and food chain all dies |
| 3.) Which organisms in the food chain diagram may | be classified as predators? |
| a.) caterpillars and small birds b.) plants and hawks | d.) plants only |
| 4.) Based on the food chain diagram, if the population caterpillar population? a.) stay the same b.) decreases | on of small birds increases, what will happen to the cat more cate-p. Mars c.) increases d.) all of the above |
| 5.) If the number of plants decreases due to pesticid | es, what will happen to the caterpillar population? |
| a.) stay the same (5.) decreases - nothing to east | c.) increases d.) none of the above |
| 6.) Hawks in the food chain diagram are classified a | ······································ |
| a.) carnivores b.) consumers | c.) predators (1.) all of the above |
| 7.) A heavy marble sinks to the bottom of glass of w statement is true when comparing the density of | ater while a small cork floats on top of the water. What the water, cork and marble? |
| a.) the cork is the most dense object b.) the marble is the most dense object | c.) water is less dense than the corkd.) the marble is the least dense object |
| 8.) Salt and sugar are dissolved in a pan of water. A water evaporated. Why did the salt and sugar N | After 3 days, only the sugar and salt remain since the OT evaporate like the water? |
| a.) salt and sugar are too heavyb.) water is a liquid and salt and sugar ar | c.) salt and sugar dissolved and are invisible re not d.) all ingredients evaporated in the pan of water |
| 9.) Which layer of the earth is the thinnest? Cruz i | - Which layer of the earth is the hottest? Conc |
| 10.) My cat sees itself in the bathroom mirror. In sci | ence, this is an example of |
| Barefraction of light (b) reflection S 169 to Lee Server Server | on of light c.) the cat's good eyesight rese Smith and Blaine Helwig, 2014. All Rights Reserved |

| 5 th Grade S | cience Spring Review | , Warm-Up Num | ber 21 |
|---|--|---|--|
| (12 to 15 minutes, | maximum) Na | ame: <u>Key/S</u> e | word |
| 1.) A fifth grader's younger broth water droplets all over the co the change in temperature aft inside the refrigerator and wa | her reaches into the refr ntainer. The fifth grade ter the milk was left on t ater vapor changed back | igerator to grasp a er explains to his but the counter earlier a to a liquid form. | gallon of milk and discovers rother it is most likely due to compared to the temperature What is the name for this? |
| a.) evaporation b.) melting | | c) condensation d.) freezing | - tenp. V below Vapor pressure cause the condensation |
| Food Chain Diagram (Use the Di | agram to answer question | ons 2 - 6 below) | × 1 |
| Sunt | | small birds — | hawks |
| The plants | snans | ducks — | foxes |
| 2.) Which organism (living thing) |) is necessary for all anim | nals to be able to s | urvive in the food chain diagram? |
| (a.) plants b.) small birds | | c.) caterpillars d.) foxes | |
| 3.) Which organisms in the food | chain diagram may be cl | lassified as predate | ors? |
| a.) caterpillars and sm b.) plants and hawks | all birds | c.) small birds, d.) plants only | ducks, foxes and hawks |
| 4.) Based on the food chain diagr to the hawk population? | am, if the population of | snails decreases, w | hat will most likely happen |
| a.) stay the same | haules to | c.) increases d.) all of the abo | ove |
| 5.) If the number of foxes decreas | ses due to overhunting b | y man, what will h | appen to the snail population? |
| a.) stay the same | nails t | c.) increases | above |
| 6.) Hawks and foxes in the food c | hain diagram are classif | fied as | |
| a.) carnivores | 0 | c.) predators | |
| b.) consumers | | (d.) all of the abo | ove |
| 7.) A suspension of oil (top layer) What statement is true when o | and water (bottom laye comparing the densities | r) are in a glass wi of the water, oil, ar | th a cork on the top of the oil. nd cork? |
| η_{t} $(a.)$ the cork is the most $(a.)$ the oil is the most $(a.)$ | t dense object Iense liquid | (c.) the oil and co d.) the water is | ork are less dense than the water the least dense of all the objects |
| 8.) What is the easiest way to sepa | arate iron ore from soil? | 1. | |
| a.) use a sieve b.) use a hand lens | | c.) use a magned.) use a wire bit | rush |
| 10.) A rainbow is caused by sunlig | ht passing through prec | ipitation. This situ | ation is an example of |
| a.) refraction of light | b.) reflection of l | ight | c.) the magic of optics in science |
| - light bent | Copyright, © Latrese S | mith and Blaine He | lwig, 2014. All Rights Reserved |


5th Grade Science Spring Review Warm-Up Number 23

(12 to 15 minutes, maximum)

Name:

1.) Your shadow is directly underneath your body as you walk to the playground. What time of day is it?

- a.) 8 AM (morning) Son of the day)
- c.) 12 PM (noon lunch time) di rechty d.) Party time
- PLANT DIAGRAM (Use the Diagram to answer questions 2 8 below)
- flower leaf sharp thorns stem roots 2.) The plant roots allow what two important things to enter the plant. Name them. Hew + Nutrieu 3.) What is inside the plant's stem that allow water and nutrients (minerals) to reach the leaves? a.) cardboard paper c.) rubber (b.) small vertical tubes to transport water/minerals d.) none of the above 4.) What is the purpose or function of the flowers or fruits on a plant or tree? a.) to look pretty c.) to attract sunlight (b) to reproduce and make more plants and trees d.) to defend the plant from herbivores 5.) During photosynthesis, what is the plant making? a.) it is reproducing c.) fertilizing the ground with minerals b.) it is in the process of pollination d.) making a sugar or its food 6.) Why is a plant called a producer, and it is not called a consumer? a.) a plant is unable to make its own food c.) a plant is a performer not a producer (b) a plant makes its own food and a consumer cannot d.) a plant is a consumer 7.) A plant or tree sometimes has sharp thorns. What purpose or function do the thorns serve? (a) to defend the plant or tree against predators c.) to attract sunlight b.) to hurt and kill the plant d.) all of the above 8.) How does a flowering plant reproduce for its species to live on the next year? a.) insects pollinate when they get nectar c.) plant pollen sticks to animal fur d.))all of the above b.) plant pollen is transported by the wind 9.) What is the main reason for the four seasons (winter, summer, fall, spring) we have on Earth? a.) the distance of earth from the sun c.)) the tilt (declination) of the earth d.) the rotation of the earth on its axis b.) the moon's orbit around the earth 10.) During the rock cycle, what type of rock is formed underground due to heat and pressure? a.) sedimentary rock b.) metamorphic rock c.) igneous rock

5th Grade Science Spring Review Warm-Up Number 24 Name: Souron, (12 to 15 minutes, maximum)

- 1.) A blue crayon is placed in a frying pan on a hot stove. The blue crayon melts but does not burn. All of the following answer choices DID NOT change when the blue crayon melted EXCEPT
 - a.) the crayon's color
 - b.) the crayon's mass

c) the crayon's shape d.) the number of atoms in the crayon

PLANT DIAGRAM (Use the Diagram to answer questions 2 – 8 below)

| Sun | leaf stem | —— flower — sharp thorns |
|--------------------------|---|--|
| | roots | soil (Nutrients) |
| 2.) The plant ro | ots allow two important things to enter the p | lant. Name them. H20 + Minereds |
| 3.) What is insid | de the plant's stem that allow water and nutri | ients (minerals) to reach the leaves? |
| a.) ca | rdboard paper nall vertical tubes to transport water/mineral | c.) sunlight ls d.) precipitation |
| 4.) What is the | purpose or function of the flowers or fruits or | n a plant or tree? |
| a.) to (b.) to | look pretty reproduce the species and make more plants | c.) to attract sunlight s/trees d.) to defend the plant from herbivores |
| 5.) During phot | osynthesis, what is the plant making? | |
| a.) it b.) it | is reproducing is in the process of pollination | c.) fertilizing the ground with minerals (d.)) making a sugar or its food |
| 6.) What gas is | absorbed into the leaf during photosynthesis? | ? |
| a.) ni | trogen Irbon dioxide | c.) oxygen d.) phosphorous |
| 7.) What gas is g | emitted or given off during the process of pho | otosynthesis? |
| a.) ni b.) ca | trogen Irbon dioxide | c.) oxygen d.) phosphorous |
| 8.) What is also | absorbed into the leaf during photosynthesis | for the plant to make sugar or its food? |
| a.) he | lium Inlight | c.) moon rays d.) phosphorous |
| 9.) What is the <u>1</u> | <u>main reason</u> for the four seasons (winter, sum | nmer, fall, and spring) we have on Earth? |

a.) the distance of earth from the sun b.) the moon's orbit around the earth (c.) the tilt (declination) of the earth d.) the rotation of the earth on its axis

misch 10.) The ocean tides occur twice every day. What object is the main reason for the ocean tides? Moon Copyright, © Latrese Smith and Blaine Helwig, 2014. All Rights Reserved

5th Grade Science Spring Review Warm-Up Number 25 Name: SOLUTIONS / KEY (12 to 15 minutes, maximum) 1.) A timber company harvests trees to have wood to build homes. What may happen as the timber company continues to harvest trees in the same area where many animals live? -homes/casa a.) a law will declare no fishing in that area (c.) animals will lose their habitats in that area b.) the timber company will lose money d.) animals will dig holes since there are no trees PHASES OF THE MOON DIAGRAM (Use the Diagram to answer questions 2 - 8 below) 1st Quman New 3 RU Quanna FUI Moon MOON As Viewed from Earth 1 2 3 4 2.) "Phases of the Moon" means a change of what on the moon? LIGHT ON MUSICS SURFACE 3.) What is the order of the phases of the moon starting at the beginning of the month? GNEW Moon Always c.) 3, 4, 1, 2 a.) 2, 4, 1, 3 a.) 2, 4, 1, 3 (b.) 3, 2, 4, 1 New, $1^{5+\alpha}$, Full, $3^{\mu\nu}$, and (b.) 1, 2, 3, 44.) What is the moon called that is labeled number 3 in the Phases of the Moon Diagram above? a.) the pretty moon c.) the old moon a.) the pretty moon b.) the new moon Are eight and other side of many of the full moon 5.) What is the moon called that is labeled number 4 in the Phases of the Moon Diagram above? a.) the pretty moon c.) the old moon d.) the full moon - Are right on 140000 Facing Earth b.) the new moon 6.) How many weeks does it take the moon to revolve around the earth one time? Note: Moonis (a.) about four weeks = 30 days Light is Reflected Sum-Light. c.) about 1 year b.) about 1 day d.) about 365 1/4 days 7.) What is another name for the moon? c.) Suzy - Screepe a.) solar - کون (b) lunar d.) None of the above 8.) What does the moon's gravitational pull on earth cause twice a day on the earth's surface? SUN, too ... but not nearly a.) recess c.) earthquakes (b.)) the ocean tides d.) large mountains to form

9.) Seasons (fall, winter, spring, and summer) of the earth occur due to the earth's tilt and as

a.) the sun rotates on is axisb.) the moon revolves are the eart

as much

c.) the earth rotates on its axis (d.) the earth revolves around the sun

10.) A fifth grader's shadow from the sun is very long and extends far toward the west. About time of day is it?

a.) 12 PM (noon) b.) 12 AM (midnight) Mosning (1.) 8 AM

| 5 th Grade Science Spr | ing Review Warm-Un Number 26 |
|---|---|
| (12 to 15 minutes, maximum |) Name: <u>Solutions/Key</u> |
| .) The moon is between the earth and the su Correctly label each circle as either the su | n. What type of eclipse is occurring? (Draw three circles. In, moon and earth. "Eclipse" means 'going away".) Son |
| a.) lunar eclipse b.) night time eclipse | c.) Eclipse of the Heart (d.) solar eclipse |
| HASES OF THE MOON DIAGRAM (Use | the Diagram to answer questions $2-9$ below) $\begin{pmatrix} 100 \\$ |
| Full MUSU NEW MUSU $1 \qquad 2$ | 3 ⁿ² Q 3 ⁿ² Q 3 4 4 4 4 4 4 4 4 4 4 4 4 4 |
| .) "Phases of the Moon" means a change of v | what on the moon? Light (Sum - Light) |
| .) What is the order of the phases of the moo | on <u>starting</u> at the beginning of the month? |
| (a.) 2, 4, 1, 3 b.) 3, 2, 4, 1 | c.) 3, 4, 1, 2 d.) 1, 2, 3, 4 |
| .) What is the moon called that is labeled nu | mber 2 in the Phases of the Moon Diagram above? |
| a.) the pretty moon (b.) the new moon | c.) the old moon d.) the full moon |
| .) What is the moon called that is labeled nu | mber 1 in the Phases of the Moon Diagram above? |
| a.) the pretty moon b.) the new moon | c.) the old moon (d.) the full moon |
| .) How many weeks does it take the moon to | revolve around the earth one time? |
| a.) about four weeks or 30 days b.) about 1 day | c.) about 1 year d.) about 365 ¼ days |
| .) What is another name for the moon? | |
| a.) solar (b.)lunar | c.) Suzy d.) None of the above |
| .) What does the moon's gravitational pull o | n earth cause twice a day on the earth's surface? |
| a.) recess Sow Augo, | Bur c.) earthquakes |
| (5.) the ocean tides Mustay T | d.) large mountains to form |
| .) If it is a <u>full moon</u> , <i>about</i> how many days u | ntil a <u>new moon</u> appears in the nighttime sky? |
| (a.) 15 days | c.) 45 days |
| b.) 30 days | d.) 60 days |

MUST BE Afternoon d.) 8 AM a.) 12 PM (noon)

b.) 12 AM (midnight)

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EI

| 5 th Grade Science Spring Review Warm-Up Number 27 |
|--|
| (12 to 15 minutes, maximum) Name: Source/Key |
| 1.) The sun does not move, but it appears to move across the earth's sky. What is causing this situation? |
| a.) rotation of the moon on its axis son is (.) rotation of the sun on its axis b.) rotation of the earth on its axis moving d.) revolution of the moon around the earth from stationary perition on earth |
| The Water Cycle (Use the Diagram to answer questions 2 – 8 below) |
| SunlightA evaporeter radient AAABAAAA |
| (vadichum) Ocean Land |
| 2.) Label the Water Cycle Diagram for Letters A, B, C, D and E. |
| 3.) What causes condensation in the clouds that are labeled by Letter 'C'? |
| a.) fluffy airC colder temperatures and expansion of airb.) higher temperatured.) airplanes flying too low in the sky |
| 4.) In the process labeled Letter 'E', where does the runoff begin? |
| a.) in the desertc.) in the mountains and plainsb.) in the lakesd.) runoff flows toward the clouds not the ocean |
| 5.) Is the evaporation of salt water a chemical or physical change? physical => changing wells |
| 6.) Is the condensation that forms clouds a chemical or physical change? <u>Same answer</u> |
| 7.) What object in the solar system begins the water cycle on earth? |
| a.) the sunc.) Earthb.) the moond.) Venus |
| 8.) Name the material that is carried by erosion forces from the mountains and fields and is deposited in river deltas. |
| a.) large rocksc.) glaciersb.) small sediments, pebbles and soild.) solar energy |
| 9.) If it is a <u>full moon</u> , about how many days until a <u>SECOND full moon</u> appears in the nighttime sky? |
| a.) 15 days b.) 30 days $\begin{pmatrix} 1 \\ 1 \\ 3 \\ 0 \end{pmatrix}$ $\begin{pmatrix} 2 \\ 5 \\ 3 \\ 3 \\ 3 \\ 3 \\ 3 \\ 3 \\ 3 \\ 3 \\ 3$ |
| 10.) As the teacher walks her students across the playground, the students notice that their shadow from the sun is directly underneath their bodies. About time of day is it? |
| (a.) 12 PM (noon) = Condition is directly c.) 5 PM 1 b.) 12 AM (midnight) Sur is directly c.) 5 PM 1 Overheed d.) 8 AM nuclear |
| 11.) Name ALTERNATIVE energy sources compared to the use of fossil fuels. Laterse Smith and Blaine Helwig, 2014. All Rights Reserved and "claam" -> > pollotion |

5th Grade Science Spring Review Warm-Up Number 28 Name: Souriow / Key (15 to 20 minutes, maximum) 1.) The earth is between the moon and the sun. What type of eclipse is occurring? (Draw three circles Label each the sun, moon and earth correctly. "Eclipse" means 'going away".) (a.) lunar eclipse => 14000 " GUING HWMY" As EARETH BLUCKS c.) Eclipse of the Heart b.) night time eclipse SUN'S LIGHT d.) solar eclipse PHASES OF THE MOON DIAGRAM (Use the Diagram to answer questions 2 – 9 below) 15±0 3 40 0 F.m N.M. Vienco Ferm EARTH - Lovicine MOUN 1 2 3 4 2.) "Phases of the Moon" means a change of what on the moon? LIGHT - SUW LIGHT ON MUNN 3.) What is the order of the phases of the moon starting at the beginning of the month? a.) 4, 3, 2, 1 b.) 3, 2, 4, 1 c.) 3, 4, 1, 2 d.) 1, 2, 3, 4 4.) What is the moon called that is labeled number 2 in the Phases of the Moon Diagram above? a.) the pretty moon c.) the old moon b.) the new moon (d.)) the full moon 5.) What is the moon called that is labeled number 4 in the Phases of the Moon Diagram above? c.) the old moon a.) the pretty moon (b.) the new moon d.) the full moon 6.) How many weeks does it take the moon to revolve around the earth one time? (a.) about four weeks or 30 days c.) about 1 year d.) about 365 1/4 days b.) about 1 day 7.) What is another name for the moon? c.) Suzy a.) lunar b.) solar d.) None of the above 8.) What does the moon's gravitational pull on earth cause twice a day on the earth's surface? c.) earthquakes a.) recess (b.) the ocean tides d.) large mountains to form 9.) If it is a full moon, about how many days until another full moon appears in the nighttime sky? a.) 15 days c.) 45 days (15 15)= 30 b.) 30 days - 1 month d.) 60 days

10.) A fifth grader's shadow is almost directly below him. About time of day is it?

(a.) 12 PM (noon) SUN DIRECTLY C.) 5 PM b.) 12 AM (midnight) Over them of d.) 8 AM (MID PAY)

| 5 th Grade Science Spring Revi | ew Warm-Up Number 29 |
|--|--|
| (15 to 20 minutes, maximum) | Name: _ Souron / Key |
| 1.) Each day, the sun does appears to move across the | earth's sky. What is causing this situation? |
| a) rotation of the earth on its axisb.) rotation of the moon on is axis | c.) rotation of the sun on its axis d.) revolution of the moon around the earth |
| The Water Cycle (Use the Diagram to answer question | ns 2 – 8 below) |
| | > A Preuptetm |
| Sunlighting Beliepside Sunlighting Ocean Verticing Ocean 2) Label the Water Cycle Diagram for Letters A. B. C | an E Land |
| 3.) What causes condensation in the clouds that are lal | beled by Letter 'C'? |
| a.) fluffy air b.) higher temperature | c.) colder temperatures and expansion of air d.) airplanes flying too low in the sky |
| 4.) In the process called Letter 'E', where does the run | off begin? |
| a.) in the desert b.) in the lakes | (c) in the mountains and plains free of the d.) runoff flows toward the clouds not ocean |
| 5.) Is the evaporation of salt water a chemical or physi | cal change? |
| 6.) Is the condensation that forms clouds a chemical or | · physical change? |
| 7.) What force pulls the precipitation to the earth's sur | rface? |
| a.) friction b.) thrust | <u>(c.)</u> gravity d.) all of the above |
| 8.) Name the material that is carried by erosion forces river deltas. | from the mountains and fields and is deposited in |
| a.) large rocks | c.) glaciers d.) solar energy |
| 9.) If it is a <u>new moon</u> , about how many days until a <u>SI</u> | ECOND full moon appears in the nighttime sky? |
| a.) 15 days b.) 30 days 3° + 15° = 45 | (c:) 45 days d.) 60 days |
| 10.) As a group of students stand on the playground, the About what time of day is it? | y notice their shadows extend toward the west. $\mathcal{W} \leftarrow \mathcal{E}$ |
| a.) 12 PM (noon) | c.) 5 PM pollutes |
| b.) 12 AM (midnight) 11.) Name & TERNATIVE energy sources compared to | (d.) 9 AM hydroelecture, nucle the use of fossil fuels. Vulad, saler, biolice |
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5th Grade Science Spring Review Warm-Up Number 30 Name: Solitan (15 to 20 minutes, maximum)

1.) A bird builds his next in back window of an abandoned car. What is this called in science?

- a.) dangerous
- b.) a poor place for a habitat

c.) a nocturnal predator d.) an adaption to the bird's environment

The Rock Cycle (Use the Diagram to answer questions 2-7 below)



- 2.) Label the Rock Cycle Diagram for Letters A, B, C, D and E. (USE: Wind, Erosion, Compaction, Weathering and Precipitation)
- 3.) Label the Rock Cycle Diagram for Numbers 1, 2, and 3 (USE: Sedimentary Rock, Metamorphic Rock, and Igneous Rock)
- 4.) What force (Letter C in the Rock Cycle Diagram) carries the weathered rock to the river?

a.) friction and thrust (b.) erosion and gravity

- c.) electricity and magnetism d.) none of the above
- 5.) What two forces shown in the Rock Cycle Diagram weather the igneous rock (Letter B)?
 - a.) the wind and precipitation (water/sleet/ice) c.) mudslides and rockslides b.) the volcano and magma d.) lava and magma
- 6.) What type of rock is formed underground with heat and pressure? Metemorphic
- 7.) What type of rock would fossils most likely be formed? Section

protect

- 8.) All of the following help an animal defend itself against predators EXCEPT
 - a.) a hard shell

c.) sharp claws, teeth and quills

(b.) short legs

- d.) the ability to run very fast
- 9.) A conductor allows what two things to easily pass through it? heat 9 cle
- wipper 10.) Name as many conductors as possible. metal (iron); water, air,
- 11.) On the line below, name as many insulators that do not allow electricity or heat to pass through itself. rubber, plastic, wood, porcelean, glass, wood doth Copyright, © Latrese Smith and Blaine Helwig, 2014. All Rights Reserved

| | |
|---|---|
| 5 th Grade Science Spring Rev | view Warm-Up Number 31 |
| (15 to 20 minutes, maximum) | Name: Sourions / Key |
| 1.) A young man reads a book with a see through glass of science principle is taking place? | ss hemisphere to make the print bigger. What type |
| a.) reflection of light b.) condensation | c.) refraction of light d.) decomposer |
| The Rock Cycle (Use the Diagram to answer question | us 2 – 8 below) |
| A | Clouds Clouds |
| River sedimenter noch -1 Bzt compact | Volcano Sediments 37 meterschie Volcano Magma Chamber |
| 2.) Label the Rock Cycle Diagram for Letters A, B, C Weathering, and Precipitation) | , D and E. (USE: Wind, Erosion, Compaction, |
| 3.) Label the Rock Cycle Diagram for Numbers 1, 2, a and Igneous Rock) | and 3 (<u>USE:</u> Sedimentary Rock, Metamorphic Rock, |
| 4.) What force (Letter C in the Rock Cycle Diagram) | carries the weathered rock to the river? |
| a.) friction and thrustb.) electricity and magnetism | (c.) erosion and gravity d.) all of the above |
| 5.) What two forces shown in the Rock Cycle Diagram | n <u>weather</u> the igneous rock (Letter D)? |
| a.) lava and magma b.) the volcano and magma | c.) mudslides and rockslides d.) the wind and precipitation (water/sleet/ice) |
| 6.) What type of rock is formed underground with he | at and pressure? Meterworphic |
| 7.) What type of rock would fossils most likely be form ALL BUIS can chere 8.) True or False. A metamorphic rock may be chang | ned? <u>Sedimuty</u> into any one of The sed other two ed into a sedimentary or an igneous rock? <u>Truty</u> pus |
| 9.) How many 'things' are changed or tested in any sc | ience experiment? Done - all else left |
| 10.) A conductor allows what two things to easily pass | s through it? heat + electricity |
| 11.) Name as many <u>conductors</u> as possible. <u>meters</u> (| ike copper, iron; Water, Air: Humans |
| 12.) On the line below, name as many <u>insulators</u> that a glass, where, plastic, used, | lo not allow electricity or heat to pass through itself. porcelecn; cloth |

| | 5 th Grade Science Spring Revie | w Warm-Up Number 32 |
|--|---|---|
| (15 to | 18 minutes, maximum) N | Name: Key Sourrow |
| 1.) Melissa listed 4 c characteristics o | haracteristics for a predator using v f predators she wrote down on her p | what she learned in her science class. Write the 4 paper. |
| 1.) <u>sha</u> | inp teeth | 3.) built for speed |
| 2.) <u>≤ k</u> ø 2.) How many thing | s or variables are changed in any sc | _ 4.) <u>eyes in front of head</u> |
| 3.) In a science class on each of three as well. Dante u his science exper a.) How y b.) How s | s, Dante did the following to set-up h plants. He used the same amount o sed three different types of plants in timent? water affects plant growth soil affects plant growth | his experiment. He used the same amount of water f sunlight and the same soil type on all three plants in each pot holder. What was Dante testing during to only Hing changed (c.) Which type of plant grows best in the soil d.) How changing the sunlight affects the plant |
| 4.) Why would an o it sees a predator a.) to eat b.) to get | rganism like a blow fish expand its h r? のアアモモア め more food more oxygen to its lungs | lungs and appear to be twice the size normally when $f(x) = \frac{1}{2} \int \frac{1}{$ |
| Jose sawed a tree do shown in the picture | wn and examined the tree trunk tre to right. | ee rings |
| 5.) How old was the 3 year b.) 4 year | tree that Jose cut down? rs old Grings | c.) 5 years old |
| 6.) In what year of t | the tree's life was there most likely a | (drought? no nain old |
| b.) 4 year | sold grew the least | d.) impossible to tell |
| 7.) What helps prot a.) the in b.) the lea | ect a tree against a fire and insects? ner most ring aves of the tree | c.) the outside bark d.) None of the above |
| 8.) What is the func a.) to hole b.) to rep 9.) How is a plant al | tion of a flower on either a tree or a d water roduce the species ble to reproduce using its flower for | plant? d c.) to look pretty in the backyard d.) to hold nectar for sunlight flower pollen to move to another flower? |

- a.) insects like bees and butterflies T
 b.) wind carrying pollen T
- c.) pollen gets stuck in a passing animal's fur T
 d.) all choices help plants reproduce

| 10.) Name two ways a fruit tree like an apple tree reproduces: (1) apples drop on ground -pulp |
|--|
| rots-seeds in favorable soil (2) Birds eat pulp-seeds too => poup out seeds |
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| 5 th Grade Science Spring Revie | w Warm-Up Number 33 |
|--|---|
| (12 to 15 minutes, maximum) | Name: Key/SolvTIONS |
| 1.) Travis lists a predator using 4 characteristics she lea she wrote down on her paper. | arned in her science class. List the 4 characteristics |
| 1.) lyes in front of head 2.) sharp feeth | 4.) built for speed |
| 2.) How many things or variables are changed in any sc | ience experiment? |
| 3.) In a science experiment, a fifth grader can ALWAYS | S tell what is being tested in the experiment by |
| a.) reviewing the type of science equipment ub.) looking at the one thing that is changed | sed c.) checking the temperature of the water d.) taking note of the constants in the experiment |
| 4.) The temperature of a glass of water is 55° Celsius. H | low many degrees must the water temperature |
| increase to reach the water's boiling temperature? | 100 |
| a.) 55° Celsius b.) 0° Celsius | c.) 212° Celsius -51 d.) 45° Celsius 45 |
| Elaine looked at a tree trunk tree rings shown in the pic | ture to the right |
| 5.) How old was the tree that Elaine is looking at? | |
| a.) 4 years old b.) 5 years old | c.) 6 years old |
| 6) In what year of the tree's life was there most likely | drought? |
| a) 3 years old | c) 5 years old |
| (b.) 4 years old | d.) impossible to tell |
| 7.) What helps protect a tree against a fire and insects? | ~ • |
| a.) the inner most ringb.) the leaves of the tree | c.) the outside bark d.) None of the above |
| 8.) A bird builds its nest on top of a light on a building. | What is the bird doing besides building his habitat? |
| h.) making sure the habitat is out of the wind adapting to the environment | j.) attracting predators (home |
| 9.) Glaciers are large masses of ice that move slowly ove likely formed by a glacier? heavy - somest | er the land. Which one of these features is most |
| a.) a high mountain b.) a deep ocean | d.) a desert |
| 10.) Name two ways a <u>fruit tree</u> reproduces. | n & ground - four ble so. 1 |
| - (2) Diva/animed cats pulp | and seed two - poop it out |
| 11.) What type of energy is released by a light bulb that | is turned on? <u>the mal and best</u> radient |
| Convright @ Latrese | Smith and Blaine Helwig 2014 All Rights Reserved |

5th Grade Science Spring Review Warm-Up Number 34 Name: Key (12 to 15 minutes, maximum) 1.) Shown below is white, visible light as it travels through a glass triangular prism. It separates into seven colors (ROYGBIV) - Red, Orange, Yellow, Green, Blue, Indigo and Violet as it travels through the glass prism. This is an example of refraction since the light is bent by the glass prism. Red White Light -Orange ► Yellow color spectrum Green **Glass** Prism Blue Indigo benching Violet What is another example of refraction? a.) when light bounces back from a mirror c.) when sunlight strikes the moon b.) when light strikes your paper on your desk (d.) when light goes into water - de f medius 2.) A animal skull has flat teeth. What type of animal was it(most likely)when it was alive? plants h.) omnivore j.) skullivore i.) herbivore k.) carnivore 3.) The temperature of a glass of water is 26° Celsius. How many degrees must the water temperature decrease to reach water's freezing temperature? 26°C -0°C (a.)) 26° Celsius c.) 212° Celsius b.) 32° Celsius d.) 45° Celsius The Electrical Circuit shown in the diagram below will be used to answer questions 4-6. Break in the wire - no electricity Light #1 Wire Switch D Light #3 Closed Light #2 Battery 4.) What light will NOT come on in this circuit as it is shown above? (c.) Light # 3 a.) Light #1 b.) Light # 2 d.) All Light will not work 5.) IF the switch were OPEN, what lights will light up? h.) Light #1 j.) Light #3 i.) Light # 2 electri 4 (k.) None of the lights will not shine light or work 6.) Why is rubber or plastic wrapped around the copper (metal) in the wires in the circuit shown above? esn c.) so humans do not get electrocuted. a.) rubber and plastic are insulators (T.) All of the above are reasons to use b.) the copper inside the wire is a conductor plastic/rubber around the wires. 7.) What scientific principle is being tested if Oliver throws rocks and baseballs up in the sky and they fall back to earth?

to earth?

h.) massi.) solubility

grou. 5

(j.) gravity k.) density

5th Grade Science Spring Review Warm-Up Number 35 Name: KEY/Soution (12 to 15 minutes, maximum) 1.) Shown below is white, visible light as it travels through a glass triangular prism. It separates into seven

colors (ROYGBIV) - Red, Orange, Yellow, Green, Blue, Indigo and Violet as it travels through the glass prism. This is an example of refraction since the light is bent by the glass prism.

| ALL White Light Light (Vis.ble) seperates into these 7 Colors | Red Orange Yellow Green Blue Indigo Violet |
|---|---|
| Which answer choice is NOT an example of refrac | tion but of reflection? |
| a) when light bounces back from a mirror b.) when light goes into a raindrop forming | c.) when light enters your eyeglasses refree a rainbow d.) when light goes into water refree |
| 2.) A animal skull has sharp and flat teeth. What typ | e of animal was it (most likely) when it was alive? |
| (b) omnivore must > plenh | j.) skullivore |
| i.) herbivore | k.) carnivore |
| 3.) The temperature of a glass of water is 26° Celsius. increase to reach water's boiling temperature? | How many degrees must the water temperature |
| a) 26° Celsius | 26 CJ 74º Celsius |
| b.) 32° Celsius | 74 d.) 45° Celsius |
| | |

The Electrical Circuit shown in the diagram below will be used to answer questions 4-6.



- 4.) What light will NOT come on in this circuit as it is shown above?
 - a.) Light #1
 - b.) Light # 2

c.) Light #3 d.) All Light will not work

- 5.) IF the switch were Closed, what lights will light up?
 - h.) Light #1
 - i.) Light # 2

j.) Light # 3 (k.) All of the lights will shine light or work

6.) Why is rubber or plastic wrapped around the copper (metal) in the wires in the circuit shown above?

- a.) rubber and plastic are insulators
- b.) the copper inside the wire is a conductor

c.), so humans do not get electrocuted. d.) All of the above are reasons to use plastic/rubber around the wires.

7.) What scientific principle is being tested if a marble, cork and oil are all dumped into a very large the styr graduated cylinder full of water? j.) gravity k.) density

- h.) mass
- i.) solubility



1.) Shown below is a light ray striking a mirror. What direction will the ray be reflected from the mirror?



- 7.) Why does the electricity flow through the wire?
 - (a) the metal/copper is a conductor
 - b.) electricity is all about sound energy
- c.) the plastic that surrounds the wire is round
- d.) the plastic is an insulator

8.) Which of these answers best demonstrates reflection of light?
h.) Looking though a glass fish bowl
j.) Looking at my image on a car window

- i.) Looking though a glass lish bowl
- (j.) Looking at my image on a car window k.) All are examples of refraction

9.) The 'rises' in the <u>Sast</u> and it 'sets' in the WET. Use: North, East, South, or West Copyright © Latrese Smith and Blaine Helwig, 2014. All Rights Reserved



b.) dogs running around the park

(d) dogs doing small tricks for food



1.) Shown below is a light ray striking a convex GLASS lens. What will happen to the light rays as they proceed through the glass lens? (Hint: Draw them.)



- a.) The light rays will REFLECT outward
- b.) The light rays will REFRACT outward
- The light rays will REFRACT inward d.) The light rays will REFLECT inward
- 2.) Amanda wants to see the sunset, Which side of the house should she look out the window?
 - h.) north
 - i.) east

<

- 3.) In the Water Cycle, which stage is AFTER the precipitation of water from a cloud?
 - a.))run-off of water down a hill
 - **b.**) a downpour of rain over land

- c.) the formation of clouds (condensation)
- d.) the delta forming in the river

The Magnet shown in the diagram below will be used to answer questions 4 and 5.

Point 3 Point 1 magnetic field the strongest Point 4 Point 2

4.) In what location on the magnet does it have the most ability to repel or attract metal objects?

- a.) Point #1 c.) Point # 3 (D) Point # 4 ~ Pa (---
- b.) Point # 2

5.) Since the EARTH is a big magnet, where is the magnetic attraction the strongest on our planet? (Think)

h.) at the Equator

- i.) nearest the moon
- k.) near the top of the mountains (i.) at the North and South Poles ~ same do small magn

6.) Which of these answers best demonstrates reflection of light?

(h.) Looking at your image in shiny metal

- j.) looking at a rainbow in the sky
- i.) refracting light with a telescope
- k.) wearing a baseball cap
- 7.) Monkeys at the zoo are fun to watch. They have black fur and brown colored eyes. They can use a stick to defend themselves against predators. They like to make loud and interesting sounds, too. What is a learned behavior in the monkey's day at the zoo?

a.) monkeys have black fur and brown eyes **b.**) monkeys use sticks to defend themselves

- c.) monkeys make loud and interesting sounds d.) monkeys think about other monkeys
- 8.) In problem 7, what is an inherited trait for the monkeys? <u>Black for Brown eyes</u> Copyright © Latrese Smith and Blaine Helwig, 2014. All Rights Reserved



^{8.)} In problem 7, what is an inherited trait for the owls? nocturnal eyesight



- 2.) Scientists observe squirrels dropping nuts with hard shells from high tree branches to the ground below to break open the hard shells. The squirrels scamper down to the ground and eat the nuts after the shell has been cracked open. Which of these investigations would best help the scientists determine whether this skill is a learned behavior or an inherited skill?
 - H.) Determining what sizes and kinds of nuts are most often eaten by squirrels
 - J.) Determining the type of shells that are used by squirrels
 - K.) Observing families of squirrels to determine if young squirrels also crack shells in the same way
 - (L.) Raising young squirrels away from adult squirrels that crack nuts open by dropping them from trees must make sure their is no influence from adult

The ELECTROMAGNET shown in the diagram below will be used to answer questions 3, 4, and 5.





- 2.) In the circuit above, what would happen if one of the batteries was flipped around so the two positive ends were facing one another? Will not flow
- 3.) Many students are confused between the difference of weather and climate. What is an example of weather and not climate?
 - H.) The temperatures are always hot like this every summer for the last twenty years.
 - (J.) It was very hot yesterday and it is even hotter today.
 - K.) Reading the temperatures off a chart for a 3 month period that has not changed in fifty years.
 - L.) Climate is short-term and weather is a long-term condition over many, many years.

The ELECTROMAGNET shown in the diagram below will be used to answer questions 4 through 7.



4.) In an electromagnet, the LESS wire coils wrapped around the nail makes the electromagnet ______.

| 🛿 weaker | c.) no effect | |
|------------|---------------|--|
|) stronger | d.) less | |

5.) A stronger electromagnet could be made shown in the picture IF _

- h.) a magnet is used instead of a nail
- i.) a bigger battery is used (k.)ALL choices make a stronger Electromagnet
- 6.) An electromagnet works because when electric current flows through the wire,
 - a.) refraction is created around the wire
 c.) reflection of electric current is created
 d.) Not Here

8.) Two ice cubes are placed on separate plates. One ice cube has a mass of 50 grams and the other ice cube has a mass of 180 grams. Which result would be the same for both ice cubes?

a.) the time it takes for each to melt to liquid c.) the total volume of each cube

(b.) the temperature at which each cube melted d.) the amount of liquid from each ice cube

- 9.) True or False. My mass is the same on the Earth and Moon, but my weight changes.
- 10.) True or False. Children adapt to their school environments depending on if school and classroom rules are enforced and children are held accountable for their conduct.

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j.) larger wires to carry more current

^{7.)} How do we make the electromagnet not work? detach the wires - no current.

| 5 th Grade Science Spring I | Review Warm-Op Number 42 |
|--|--------------------------|
| (12 to 15 minutes, maximum) | Name: KEY/SOLUTIONS |

- 1.) A river falls over a high cliff creating a cascading waterfall. At the bottom of the waterfall a couple friends build a big wheel that is turned by the falling water. This is an example of what type of energy?
 - A.) solar B.) thermal (C.) mechanical D.) sound
- 2.) The graph shows the speed of a ball as it is dropped from a building that is 80 feet tall.



If the ball continues to fall to the ground, what will happen to the Ball Speed according to the graph as it falls the last 40 feet to the ground (at 0 feet)? (Think!!!!)

- H.) The speed of the ball will stay the same.
- J.) The speed of the ball will decrease.
- K.) The speed of the ball will increase.
- L.) The speed of the ball will decrease then it will decrease.
- 3.) Many students are confused between the difference of weather and climate. What is an example of climate and NOT weather?

(H.) The temperatures are always hot like this every summer for the last twenty years.

- J.) The day is so cold.
- K.) Recording the temperature at the beach every day for one week.
- L.) Two friends decide to meet in a month on a Saturday, if the temperature is above 30° C.
- 4.) Juan built an electromagnet in science class. If he wanted to make the most powerful electromagnet possible, he should do what of the following?
 - A.) Use thicker copper wiresC.) coiled the wire many times around the nailB.) Use a large batteryD He should do all of these choices.
- 5.) The temperature of a glass of water is 76° C. How many degrees must change for the glass of water to be brought to the boiling point of water? 76
 - H.) 76° C + 24 K.) 100° C (J.) 24° C / 0° C L.) 0° C
- 6.) Two ice cubes are placed on separate plates. One ice cube has an equivalent liquid amount of 50 liters and the other ice cube has an equivalent liquid amount of 90 liters. Which result would be the same for both ice cubes?

A.) the time it takes for each to melt to liquid C.) the total volume of each cube (B.) the temperature at which each cube melted D.) the amount of liquid from each ice cube

Coc Copyright © Latrese Smith and Blaine Helwig, 2014. All Rights Reserved inethry/freezing

5th Grade Science Spring Review Warm-Up Number 43 (10 to 12 minutes, maximum) Name: OCUTIONS 1.) A toaster cord is plugged into the wall socket. This is an example of what type of energy? electricer D.) electrical B.) thermal C.) mechanical A.) solar 2.) The graph shows the distance a cannon ball travels as it is shot out of a cannon. Cannon Ball Height (ft) 80 100 Distance of a Cannon Ball Shot from a cannon 60



If the ball continues to move in the direction shown on the graph, what will happen to the distance of the cannon ball (according to the graph) as it falls the last 25 feet to the ground (at 60 feet)?

- H.) The distance of the canon ball will stay the same.
- J.) The distance of the cannon ball will decrease.
- (K.) The distance of the cannon ball will increase.
- L.) The distance of the cannon ball will decrease then it will decrease.
- 3.) Many students are confused between the difference of weather and climate. What is an example of climate and NOT weather?
 - (H.) The temperatures are always cold during the winter for the last hundred years.
 - J.) The day is so warm and balmy.
 - K.) Noticing the weather for the last two Saturdays.
 - L.) The fifth grade schedule a picnic since the temperature is 31° C.
- 4.) Pedro put salt tablets in a bottle of water. What happened to the salt tablets placed in the water?
 - (C.) The salt tablets dissolved in the water A.) The salt tablets evaporated
 - B.) The salt tablets are absorbed into the bottle D.) Impossible to say what happened to the salt
- 5.) The temperature of a glass of water is 34° C. How many degrees must change for the glass of water to be brought to the freezing point of water?

| H.) 66° C | K.) 100° C |
|------------|------------|
| J.) 234° C | L.) 0° C |

- 6.) Two glasses of water are placed on the kitchen counter. One glass of water contains 125 milliliters and the other glass of water contains amount of 290 milliliters. Which result is the same for both glasses of water?
 - A.) the time it takes for each to evaporate
 - **B.**) the temperature at that each glass of
- C.) the mass of each glass of water
- D.) the amount of thermal energy to boil each

of water will boil

5th Grade Science Spring Review Warm-Up Number 44 (12 to 15 minutes, maximum) Name: <u>Key Socurions</u>

1.) The sun heats panels placed on a roof that power the house. This is an example of what type of energy?A. solarB.) thermalC.) mechanicalD.) electrical

2.) The graph shows the movement of a roller coaster as it travels down the tracks.



Track Distance (feet)

If the Roller Coaster continues to travel in the direction shown on the graph, what will happen to the Track Distance (according to the graph) as it travels the last 20 feet to the top of the hill (at 55 feet)?

- H.) The Track Distance will stay the same.
- J.) The Track Distance will decrease
- (K) The Track Distance will increase.
- L.) The Track Distance will decrease then it will decrease.
- 3.) Large plastic tubes are placed vertically deep into the ground that allow the transfer of heat from underwater thermal streams to provide heat to homes. This is an example of using what energy resource?

A.) fossil fuels B.) hydroelectric energy (C.) geothermal energy D.) solar energy

4.) A consumer eats what type of food?

H.) only carnivores

J.) only omnivores

K.) producers J.) None of the above

- 5.) Due to pollution from fossil fuels, the City of Dallas decided to begin using a new form of energy more to power its homes and businesses. What ALTERNATIVE energy resource might they decide to use?
 - A.) burning logs in fireplaces
- C.) using biofuels to generate electricity D.) using a new coal plant to generate electricity
- B.) fracking natural gas and oil in limestone
- 6.) A favorite canned drink of Pablo's was placed in the refrigerator at the beginning of 5th grade. In May, he discovered the treat, but the directions stated, "Shake well before drinking." Why these directions?

H.) the ingredients have different densities (J.) the ingredients easily become a solution

- K.) the ingredients will always be a mixture
- J.) the ingredients are now hard rock
- 7.) A farmer bought a new plant from China and planted it in South Dakota so his cows would have plenty of grass to eat. However, the new plant reproduced rapidly and soon covered all his fields as well as his neighbors' farms. What is a likely effect that this new plant from China will have on the native plants in that part of South Dakota?

A.) An increase of native plants (B.) A decrease of native plants (C.) No effect on native plants Copyright © Latrese Smith and Blaine Helwig, 2014. All Rights Reserved

5th Grade Science Spring Review Warm-Up Number 45 (10 to 12 minutes, maximum) Name:

1.) A toaster burns bread with its heating elements. This is an example of what type of energy?

B.) thermal C.) mechanical **D.)** electrical A.) solar 2.) The graph shows the flight of an Arrow as it flies through the air.



If the arrow continues to fly in the direction shown on the graph, what will happen to the Arrow Velocity (according to the graph) as it flies the last 20 feet (at 55 feet)?

H.) The Arrow Velocity will stay the same.

(K.) The Arrow Velocity will increase.

J.) The Arrow Velocity will decrease

L.) The Arrow Velocity will decrease then decrease.

- 3.) Given the following information in the table.

Diets of Animals

| Type of Animal | Foods Eaten |
|----------------|--------------------------|
| Coyotes | Mice, Hawks, Rabbits |
| Mice | Snails, Grass, Leaves |
| Blue Jays | Mice, Worms, Bugs |
| Snails | Grass |
| Hawks | Mice, Rabbits, Blue Jays |

A.) Coyotes → Mice → Snails

- → Rabbits
- B.) Blue Jay → Hawks → Rabbits
 C.) Snails → Mice → Coyotes
 D.) Snails → Coyotes → Hawks

4.) Which is an example of solar energy being absorbed? Water cycle

- H.) Run off of water from mountains and plains toward rivers
- J.) Precipitation as the water falls on the land

K.) The breaking down of rocks by weathering with plant roots, wind, water and ice

 (\mathbf{L}) The heating of lake and ocean water that results in the evaporation of water

5.) A glacier is a heavy, massive ice block. What effect will a glacier have on a valley as it moves over land?

- A.) It will make the valley walls very steep
- C.) It will make the valley river flow uphill

B.) It will flatten the valley walls into a "U" shape D.) None of the above