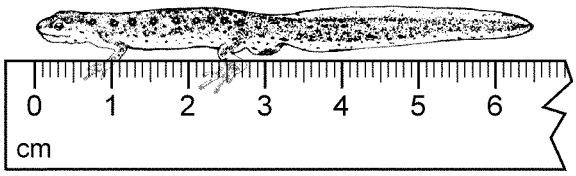
STAAR Elementary Science Sample Questions

Name: _____

1) Jennifer had two pieces of bread. She sealed each one in separate clear bags. She then placed one bag in the sunlight and one bag in the cabinet for a week. After she collected the bags, she noticed one piece of bread had a great amount of mold on it while the other had less. What is the variable in this experiment?

A Temperature of the room
B Type of bread
C Amount of mold
D Amount of light the bread received

2) What is the length of the salamander below? Record and bubble in your answer to the nearest centimeter.



			•
⓪	⓪	⓪	
①	①	①	
②	②	②	
③	③	③	
④	④	④	
⑤	⑤	⑤	
⑥	⑥	⑥	
⑦	⑦	⑦	
⑧	⑧	⑧	
⑨	⑨	⑨	

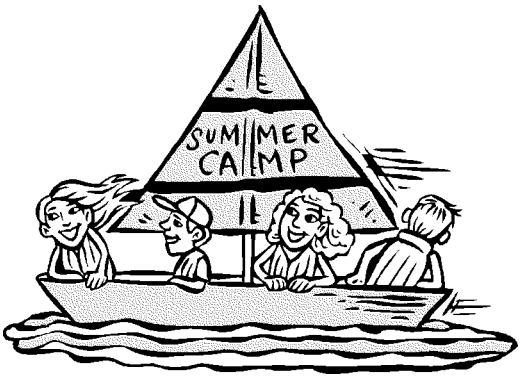
3) Which trait of a cat most helps it escape predators?

A Long tail
B Quick speed
C Purring
D Soft fur

4) Each element is in a certain place on the periodic table based on —

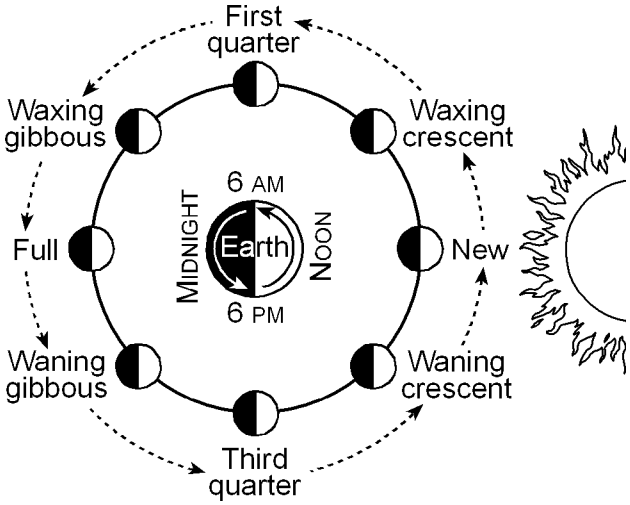
A the number of protons in the nucleus.
B the number of electrons in the nucleus.
C the atomic weight.
D whether or not it is a metal.

5) If ten more people got into the boat pictured, what would happen?



A The forces would be equal, so the boat would not move.
B The forces would be equal, so the boat would move rapidly.
C The downward force would be greater than the upward force, so the boat would sink.
D The downward force would be less than the upward force, so the boat would float.

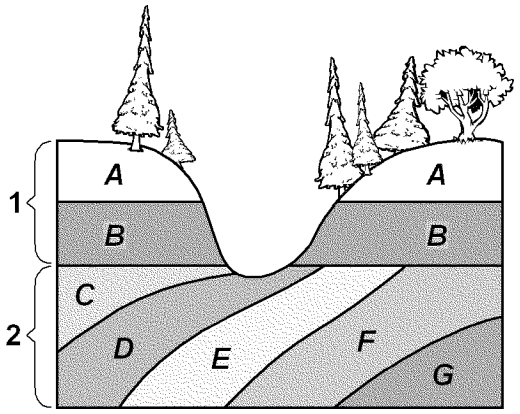
6) Use the diagram below and your knowledge of science to answer the following questions.



As the Moon pictured revolves around the Earth, the Earth also rotates. How long is a lunar cycle?

A About 6 hours
B About 6 days
C About $29\frac{1}{2}$ days
D About 24 hours

7)



In the given illustration, the angled rock layers in section **2** are most likely due to —

A past bending of the rock layers by tectonic forces.
B weathering of section **1** by water.
C erosion of the rock layers before section **1** was laid down.
D gravity causing those rock layers to slide downward.

8) In certain rabbits, a recessive gene (**f**) determines size. A dwarf rabbit (**ff**) mates with a full size rabbit (**FF**). Will their offspring be dwarf or full size?

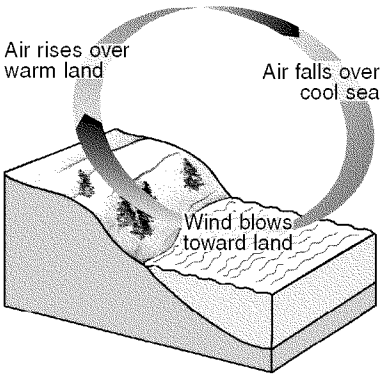
	f	f
F	Ff	Ff
F	Ff	Ff

A Mainly full size with some dwarf
B Only dwarf
C Mainly dwarf with some full size
D Only full size

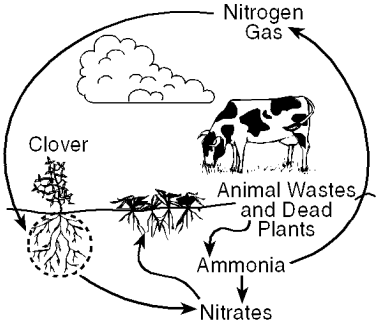
9) Formulate a testable hypothesis. Include an experiment designed to test the hypothesis along with a list of materials and equipment necessary to carry out the experiment.

10) All of the following illustrations show processes that involve direct energy from the Sun **EXCEPT** —

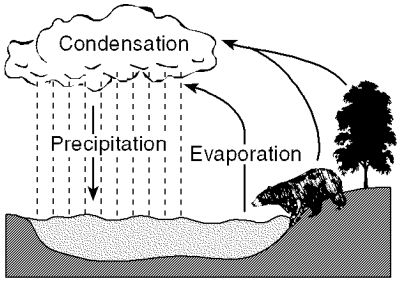
A



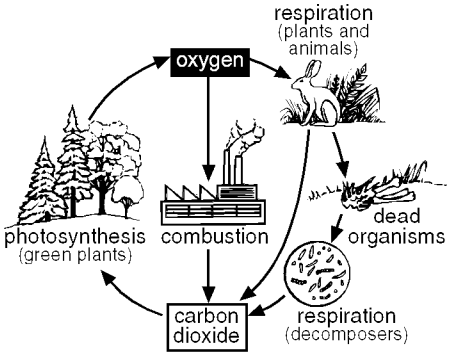
B



C



D



STAAR Elementary Science, Ch 5 #53 Stds: (TEKS) (5.2)(A)PS, (5.2)(B)PS
1) D

STAAR Elementary Science, Ch 5 #93 Stds: (TEKS) (5.2)(C)PS
2) 7 cm

STAAR Elementary Science, Ch 4 #208 Stds: (TEKS) (5.9)(A)R, (5.9)(B)R
3) B

STAAR Elementary Science, Ch 1 #62 Stds: (TEKS) (5.5)(A)R, (3.5)(C)S
4) A

STAAR Elementary Science, Ch 2 #95 Stds: (TEKS) (5.6)(A)R, (3.6)(B)S
5) C

STAAR Elementary Science, Ch 3 #92 Stds: (TEKS) (5.8)(C)R
6) C

STAAR Elementary Science, Ch 3 #217 Stds: (TEKS) (5.7)(B)R, (4.8)(A)S, (4.8)(C)S
7) A

STAAR Elementary Science, Ch 4 #326 Stds: (TEKS) (5.10)(B)R
8) D

STAAR Elementary Science, Ch 5 #430 Stds: (TEKS) (5.1)(A)PS, (5.1)(B)PS, (5.2)(A)PS, (5.2)(B)PS, (5.2)(D)PS, (5.2)(E)PS, (5.3)(B)PS, (5.3)(C)PS, (5.4)(A)PS
9) Answers may vary.

STAAR Elementary Science, Ch 3 #571 Stds: (TEKS) (4.8)(A)S, (5.8)(B)S, (5.8)(C)R
10) B