

Student Name _____

Teacher Name _____

School _____

System _____

ACH



TENNESSEE

LEARNING

Tennessee Comprehensive Assessment Program Achievement Test ~ Grade 3 Practice Test





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Science



Part 1

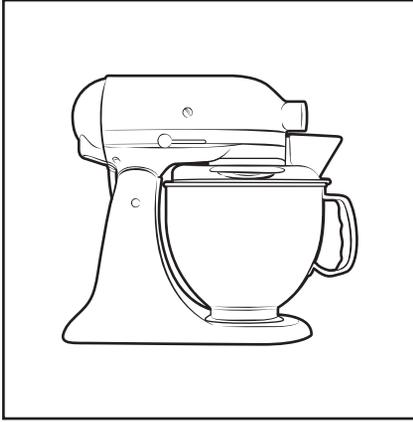
1 A mother bird most helps her young birds to survive by bringing the babies

- A** feathers.
- B** oxygen.
- C** shade.
- D** food.

Go On ►

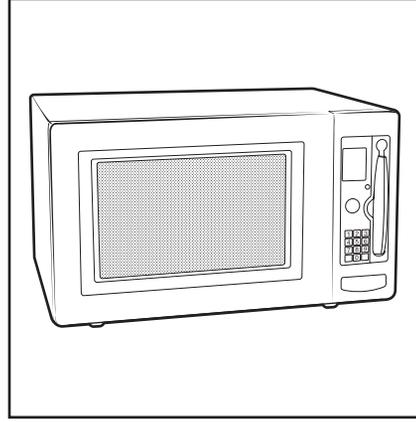
2 Which invention helps people use heat energy to cook food quickly?

F



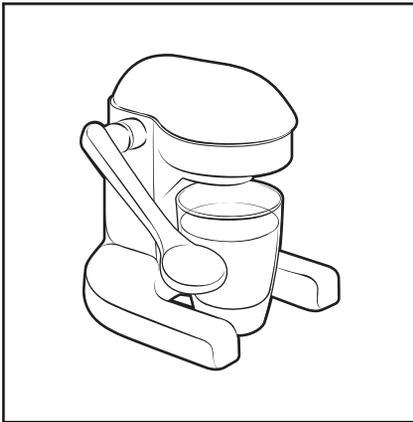
Mixer

H



Microwave

G



Juicer

J



Food Processor

3 The landform below was formed by water erosion over many years.

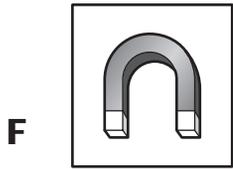


Which landform is pictured?

- A** a peninsula
- B** a canyon
- C** an island
- D** a volcano

Go On ►

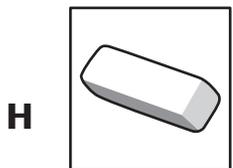
4 José is describing an object in science class. He describes the object as small, round, and finds that it will sink in water. Which object is José describing?



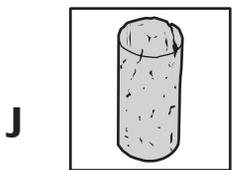
Horseshoe Magnet



Marble

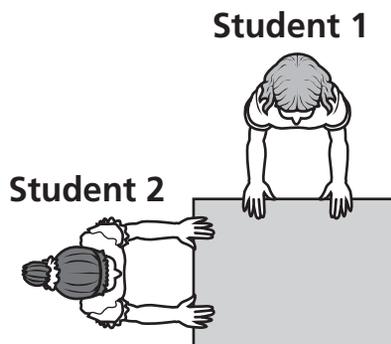


Eraser

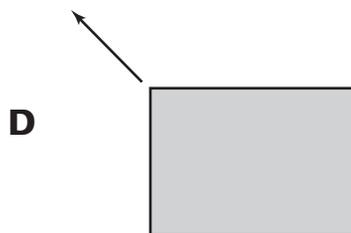
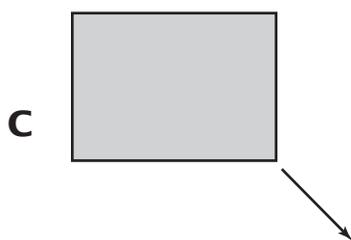
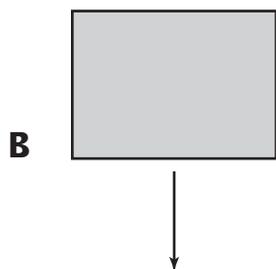


Cork

5 Two students want to push a heavy table across the room.



Both students will push the table at the same time with the exact same force. Which diagram below shows how the table will most likely move?



Go On ►

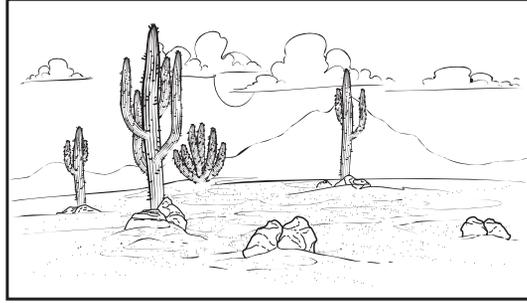
6 Which of these actions will conserve water?

- F** washing a car every day
- G** watering a lawn during the day
- H** washing small loads of clothes
- J** watering houseplants with rainwater

7 A student wants to know what types of clouds are in the sky during different types of weather. Which investigation should the student complete to answer this question?

- A** observe the clouds in the sky during rainy, sunny, and snowy weather
- B** observe the clouds in the sky during three days of sunny weather
- C** observe the clouds in the sky during a rainstorm
- D** observe the clouds in the sky during two days of snowy weather

- 8** A student examines a chart about a desert.



Desert Facts

- Harsh environment
- Less than 10 inches of rain per year
- Hot during day, cold at night
- Few plants and animals

Based on the facts in the chart, desert plants would most likely compete for

- F** light.
- G** water.
- H** space.
- J** minerals.

9 A student sweeps up dirt with small pieces of leaves.



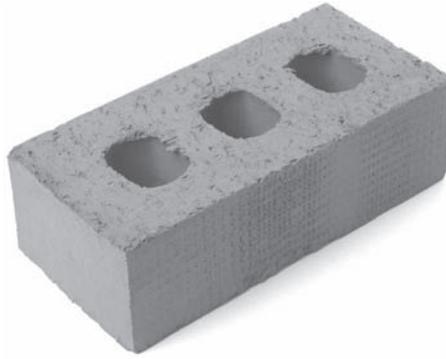
What is the best way to remove all of the leaves from the dirt?

- A** filter the mixture through a screen
- B** run a magnet through the mixture
- C** stir the mixture with a spoon
- D** add water to the mixture

10 What is at the center of our solar system?

- F** the moon
- G** the sun
- H** Earth
- J** Jupiter

11 Bricks are often used to build houses.



© Frank Wright/Stockphoto #391262

Which of these is a physical property of the brick?

- A** The brick is hard.
- B** The brick is rusty.
- C** The brick is pretty.
- D** The brick is useful.

Go On ►

12 A boy pulls on a rope, as shown below.



Which arrow shows the direction the box most likely moves?

F ←

G →

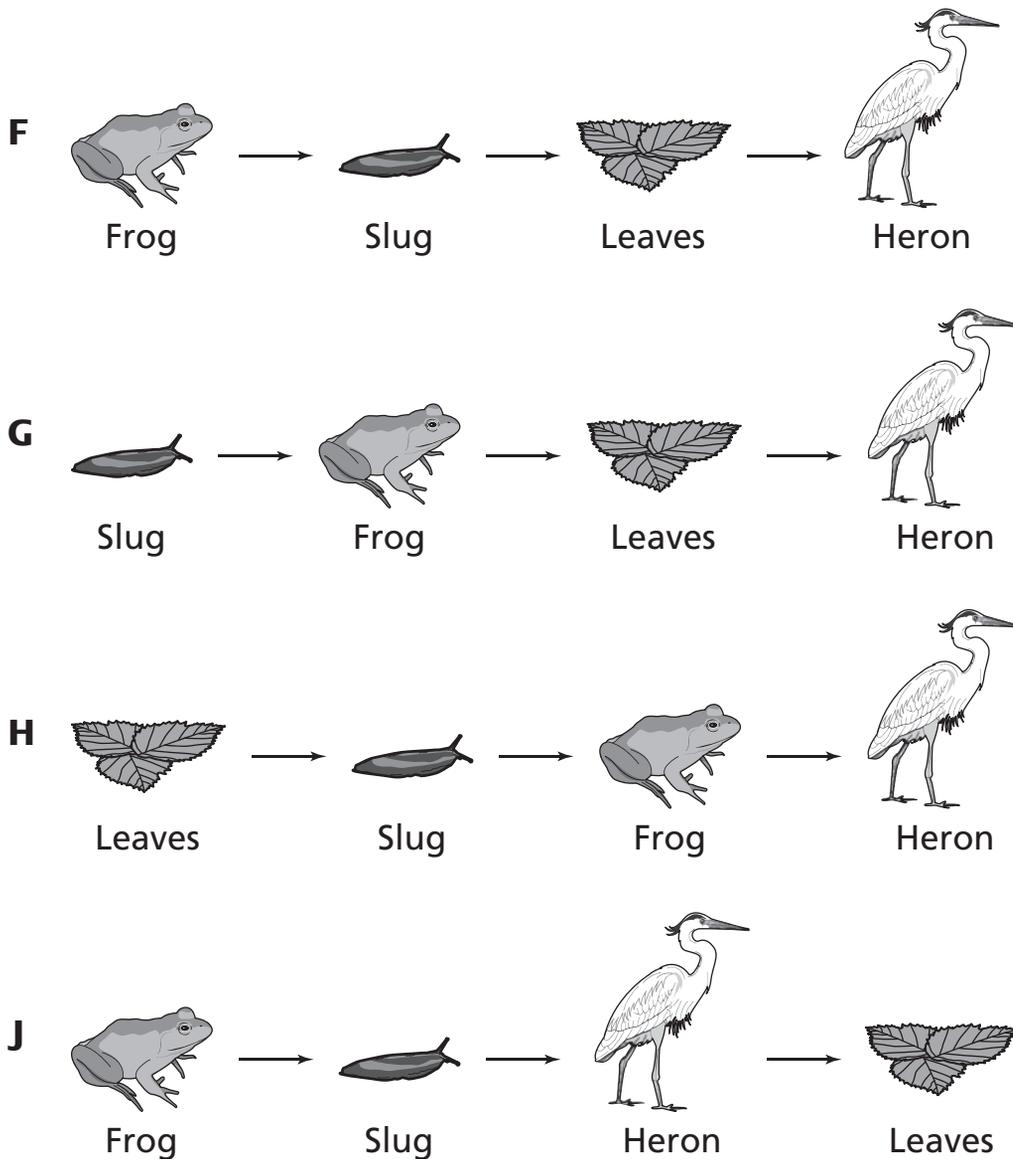
H ↓

J ↙

13 Which of these best describes how animals compete for space?

- A** An eagle builds a nest on a cliff.
- B** An earthworm eats dead leaves in the soil.
- C** A pack of wolves stalks a herd of elk.
- D** A female deer chases other deer away from her area.

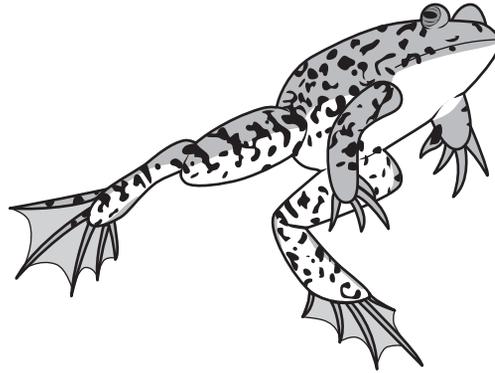
14 Which food chain shows the most likely way these organisms get their food?



Go On ►

15 The picture below shows a frog.

Frog

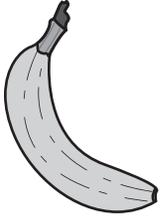


Frogs have many predators in their water environments. Which characteristic helps the frog swim fast?

- A** the size of its eyes
- B** the shape of its feet
- C** the pattern on its skin
- D** the width of its mouth

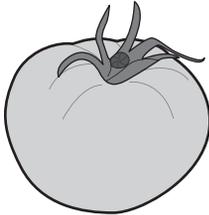
16 Which object is man-made?

F



Banana

G



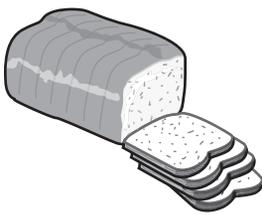
Tomato

H



Peanut

J



Bread

17 Students put some objects on two lists, as shown below.

List 1	List 2
Nail	Cork
Penny	Newspaper
Paper Clip	Rubber Ball

What would be the best title for List 1?

- A** *Float in Water*
- B** *Good Heat Conductors*
- C** *Found in Nature*
- D** *Bright Light Producers*

18 A student is practicing kicking a ball into a soccer goal.



In which direction does force need to be applied to the ball so that it goes into the goal?

F ↖

G ↗

H ↘

J ↙

Go On ►

19 The picture below shows a natural landform.

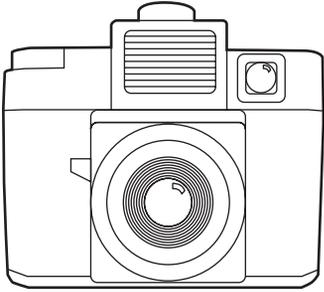


The arrow is pointing to

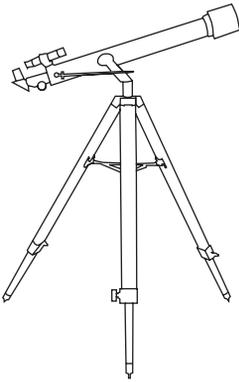
- A** a pond.
- B** an ocean.
- C** a glacier.
- D** a waterfall.

20 Which tool would best help a student to identify very small organisms that live in a pond?

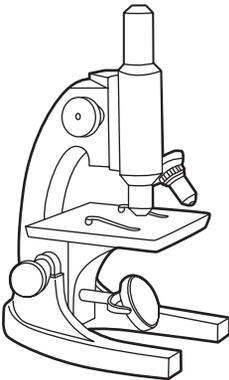
F



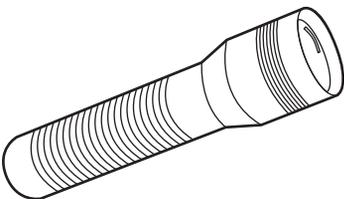
G



H

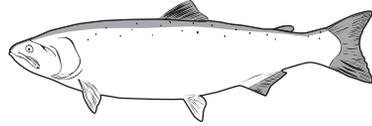


J

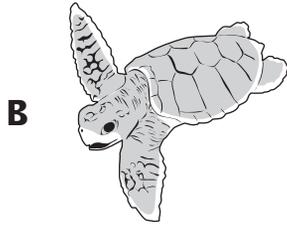
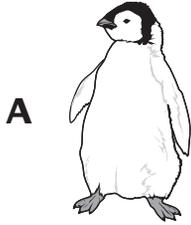


Go On ►

21 An adult salmon is shown.

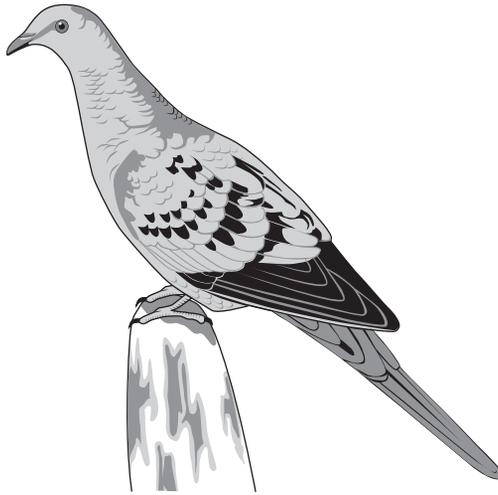


Which picture shows a young salmon?



22

The passenger pigeon used to be the most common bird in North America. The last passenger pigeon died in 1914.



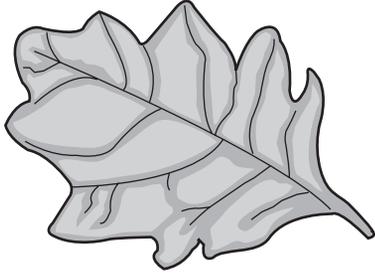
Which term describes the passenger pigeon today?

- F** extinct
- G** thriving
- H** threatened
- J** endangered

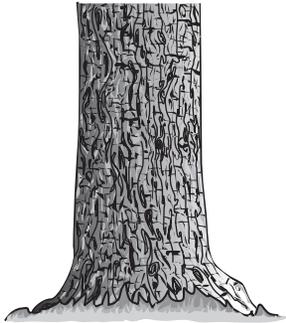
Go On ►

23 Which diagram shows a man-made object?

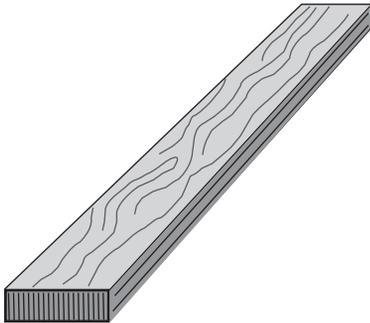
A



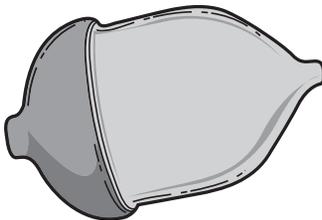
B



C



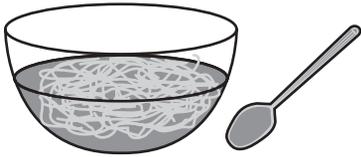
D



24

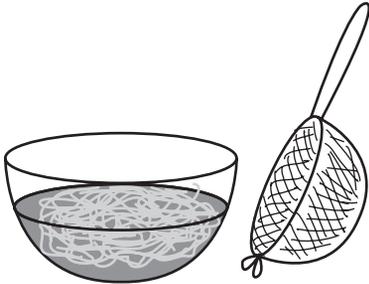
Spaghetti noodles are cooked in boiling water. What is the quickest way to separate the noodles from the water?

F



Use a Spoon

G



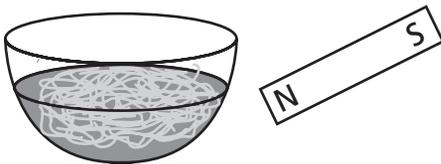
Use a Strainer

H



Let the Water
Evaporate

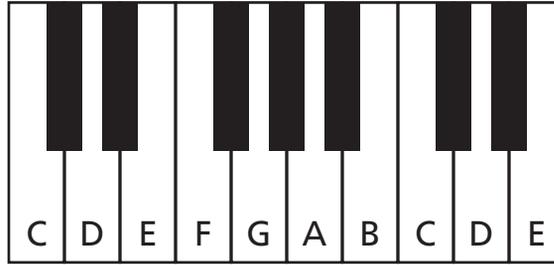
J



Let a Magnetic Tool
Remove the Noodles

Go On ►

25 The picture shows some keys on a piano.



Sounds are made when the keys are pushed. What can be done to the piano keys for the sounds to change pitch?

- A** push different keys
- B** push one key softly
- C** push one key many times
- D** push harder on the same key

26 A rain gauge is a tool that measures the

- F** temperature of rainfall.
- G** amount of rainfall.
- H** speed of rainfall.
- J** time of rainfall.

- 27** A jar of metal paper clips spills onto the floor. Which tool would best help the teacher pick up the paper clips?
- A** ruler
 - B** magnet
 - C** scissors
 - D** screwdriver

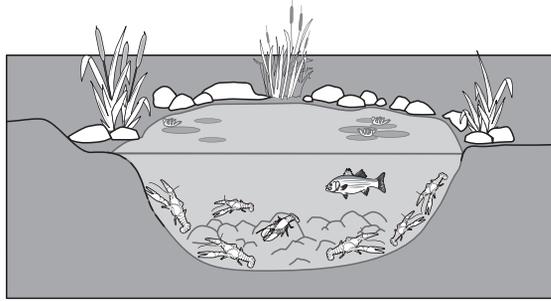
- 28** Jody is making a chart of characteristics that are passed from parent to offspring. She wants to find out which characteristics she and her mother have in common.

	Hair Color	Dimples	X
Jody	Brown	Yes	Blue
Mother	Black	Yes	Brown

Based on the chart, which characteristic is most likely characteristic X?

- F** Short Hair
- G** Shirt
- H** Eye Color
- J** Jewelry

- 29** The picture below shows a pond with many crayfish. Crayfish eat dead plants and animals.



What will most likely happen to the crayfish in this pond?

- A** The crayfish will make their own food.
 - B** The crayfish will compete for food.
 - C** The crayfish will change color.
 - D** The crayfish will grow fins.
- 30** Which of these is a way students could reuse items in a classroom?
- F** throw used pencils in the trash can
 - G** wipe off the desks with paper towels
 - H** write on the back of old worksheets
 - J** leave the lights off when not in the room

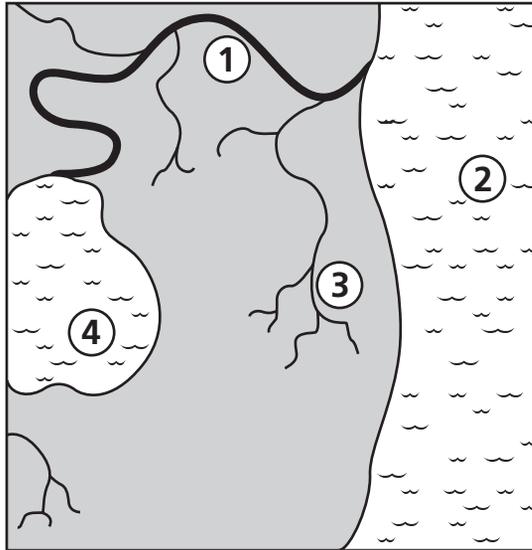
31 A student left his lunch on a table outside in the sunlight. Which object will most likely get the hottest in the sunlight?

- A** metal fork
- B** plastic tray
- C** milk carton
- D** paper napkin

32 Jessica sings a few low notes. Then she sings a few high notes. What change is made by singing first low and then high notes?

- F** The pitch increases.
- G** The pitch decreases.
- H** The volume increases.
- J** The volume decreases.

33 Four different types of water bodies are shown on the map below.



Which body of water is most likely a small stream?

- A** 1
- B** 2
- C** 3
- D** 4

34 A bear will get energy from all of these except

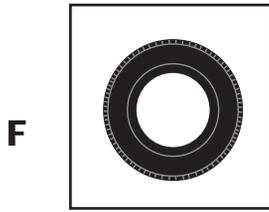
- F** fish.
- G** nuts.
- H** fruits.
- J** rocks.

35 A population of plants is at risk of completely dying out. This population is classified as

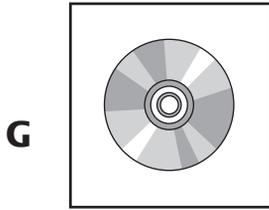
- A** extinct.
- B** thriving.
- C** threatened.
- D** endangered.

STOP 

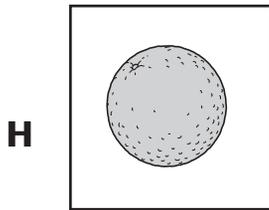
36 Which of these is a natural object?



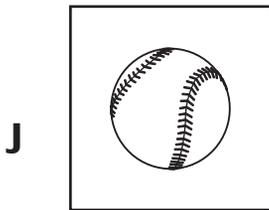
Tire



CD



Orange



Baseball

37 The picture shows a winter scene.

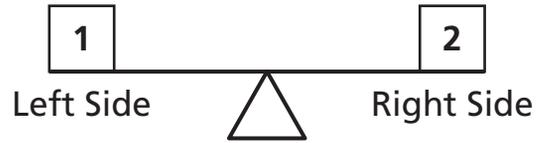


Which object in the picture is the main source of heat energy?

- A** the girl's body
- B** the girl's gloves
- C** the snowman's hat
- D** the snowman's body

Go On ►

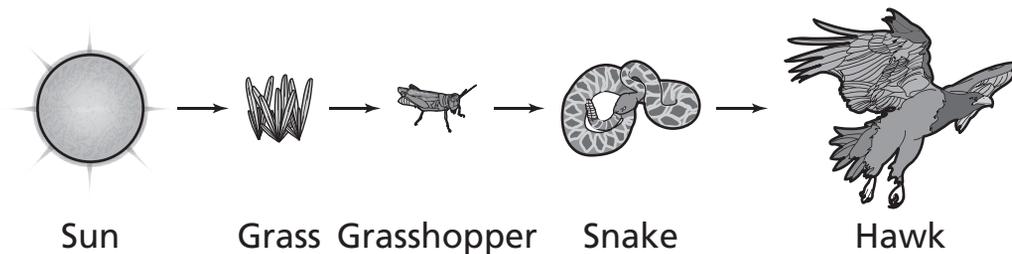
38 A student balances two equal weights.



The student can make the right side tilt downward by

- F** taking weight 1 off the left side.
- G** adding another weight to the left side.
- H** sliding weight 2 toward the left side.
- J** sliding both weights the same distance toward the middle.

39 A food chain is shown below.



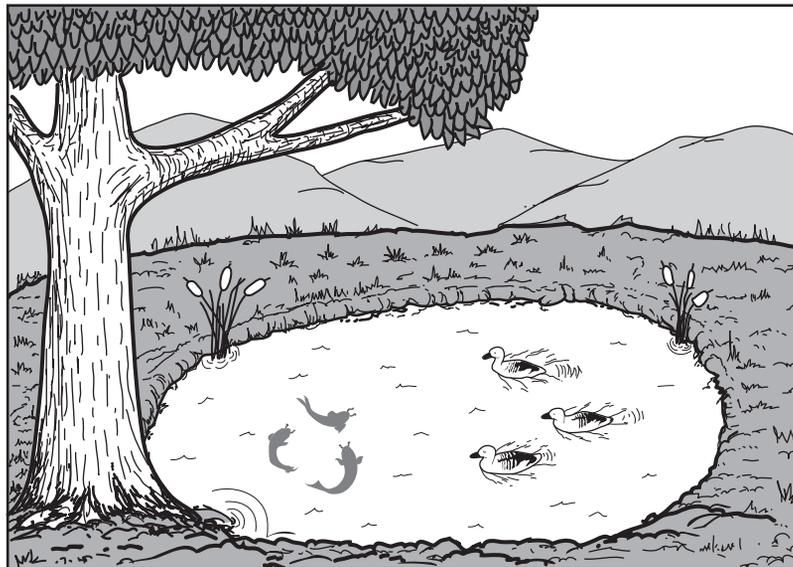
In this food chain, how do snakes get energy?

- A** by eating grass
- B** by absorbing sunlight
- C** by eating hawks
- D** by eating grasshoppers

40 Which feature helps plants live in a windy environment?

- F** thin seeds
- G** strong stems
- H** bright flowers
- J** large leaves

41 A body of water is shown in the diagram below.



The diagram shows

- A** an ocean.
- B** a stream.
- C** a river.
- D** a pond.

Go On ►

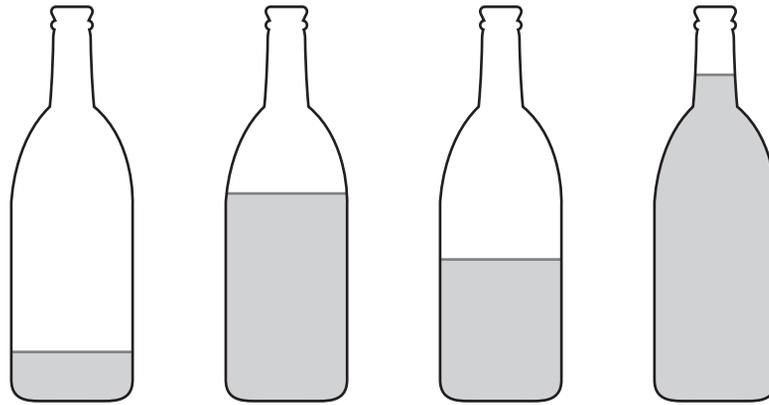
42 Glass beads, sand, and water are mixed together. Which way will best sort the glass beads from the mixture?

- F** stir the mixture with a spoon
- G** boil the mixture on a stove
- H** filter the mixture with a screen
- J** freeze the mixture in the freezer

43 Which has the sound at the highest pitch?

- A** a lion roaring
- B** a ball bouncing
- C** a feather falling
- D** a mouse squeaking

- 44** A student sets up an investigation with four bottles that have different amounts of water. The student wants to find out how different amounts of water in a bottle affect the pitch.



What action would best answer the question?

- F** Rub the outside of each bottle with both hands.
- G** Tap each bottle with a metal spoon using the same force.
- H** Blow on the base of each bottle for the same amount of time.
- J** Cover the top of each bottle and set in sunlight.

- 45** What will most likely result when a plant produces a very small number of seeds?

- A** Less water will be absorbed.
- B** There will be a lack of support.
- C** Fewer numbers of new plants will grow.
- D** More food will be produced.

46 A type of flower is shown below.



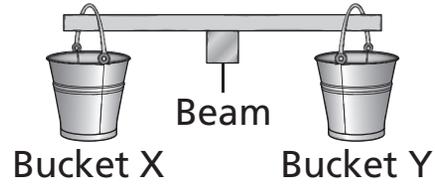
This flower grows in very few places. The flower can be damaged by people walking or building in the area. Which term best describes the flower?

- F** extinct
- G** thriving
- H** protected
- J** threatened

47 Which food is man-made?

- A** walnut
- B** ketchup
- C** lettuce
- D** peach

48 The picture below shows two buckets balanced on a beam.



A student wants to add 4 kg of water into the buckets. How should the water be divided so that Bucket X is lower than Bucket Y?

- F** 3 kg in Bucket X and 1 kg in Bucket Y
- G** 2 kg in Bucket X and 2 kg in Bucket Y
- H** 1 kg in Bucket X and 3 kg in Bucket Y
- J** 0 kg in Bucket X and 4 kg in Bucket Y

Go On ►

49 Pictured below is a box turtle.



© Tony Campbell/Stockphoto #5721691

Which feature can this turtle pass on to its offspring?

- A** its shell pattern
- B** its food source
- C** its habitat
- D** its predators

50

A student looked outside the window and saw rain. The rain was slow and gentle. What type of clouds did the student see?

F



© Bart Sadowski/Stockphoto #5933386

Cirrus

G



© Guy Sargent/Stockphoto #5768018

Nimbostratus

H



© Purdue9394/Stockphoto #4153285

Cumulus

J



© Tomasz Pietryszek/Stockphoto #5098637

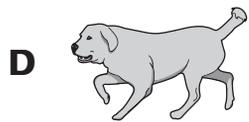
Cumulonimbus

Go On ►

51 The picture below shows some people camping.



Which object is releasing the most heat energy?



52 The picture below shows a boy playing a trumpet.



Which of these will make the sound of the trumpet louder?

- F** pointing the trumpet downward
- G** blowing harder into the trumpet
- H** pressing the keys on the trumpet faster
- J** covering the other end of the trumpet

Go On ►

53 Which does a young goat learn to do as it grows?

- A** shed its hair
- B** grow short horns
- C** find its own food
- D** develop thick hooves

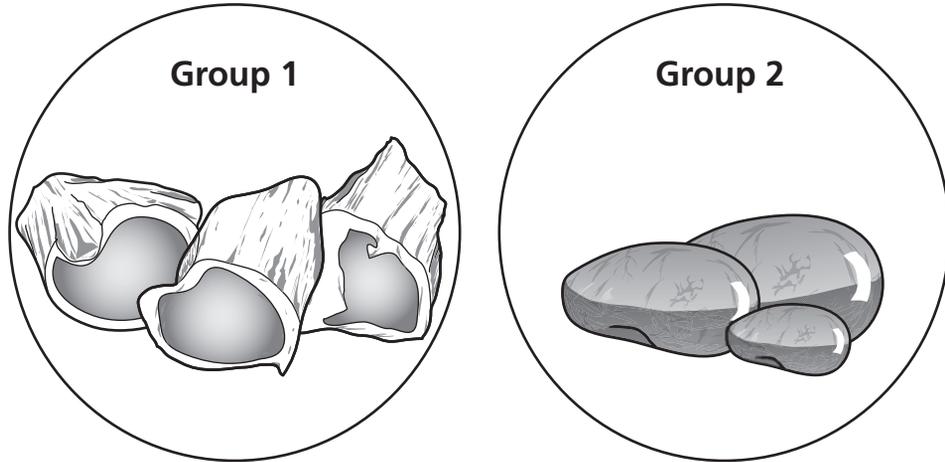
54 An outdoor scene is shown below.



Based on this scene, which object is nonliving?

- F** shrub
- G** grass
- H** flower
- J** waterfall

55 Six rocks were put into two groups.



The rocks were most likely grouped by

- A** their mass.
- B** their texture.
- C** when they were found.
- D** when they were formed.

Go On ►

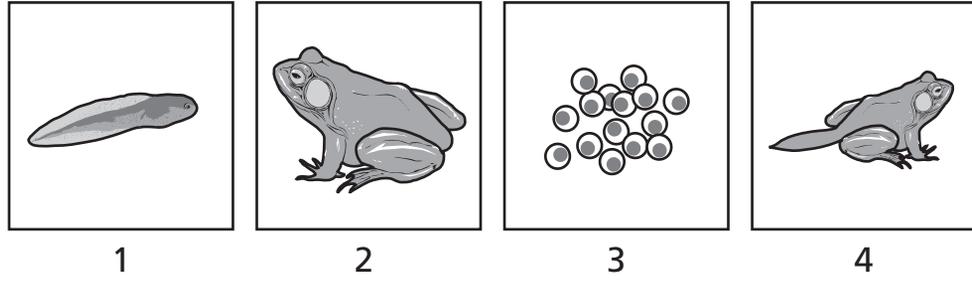
56 A basketball player throws a basketball toward the net as shown.



The ball falls back down. What force causes the ball to fall back down?

- F** the pull of gravity
- G** the push of the ball
- H** the push of the player
- J** the pull of air pressure

57 The stages of the life cycle of a frog are shown out of order.



How are the stages correctly ordered?

- A** 1, 2, 3, 4
- B** 2, 4, 3, 1
- C** 4, 3, 1, 2
- D** 3, 1, 4, 2

Go On ►

58 The picture below shows a kind of owl.



This owl has white feathers for many months of the year. In which environment would the owl most likely survive?

- F** desert region
- G** forest
- H** polar region
- J** plains

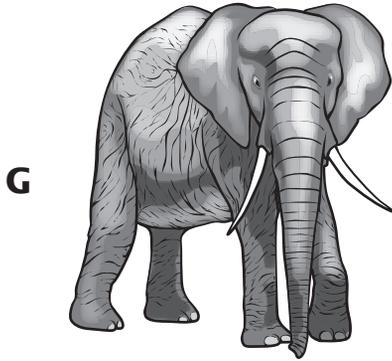
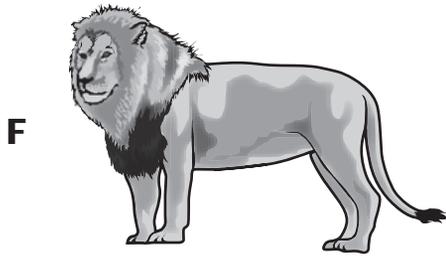
59 Which atmospheric condition can be measured using a weathervane and an anemometer?

- A** rain
- B** snow
- C** wind
- D** humidity

60 A baby animal is shown below.



Which of these pictures will the animal look like when it is grown?



Go On ►

61 The chart below gives information on woolly mammoths.

Woolly Mammoth Facts

- Related to elephants
- Thick coat of fur
- Thick layer of fat
- Died out many years ago

Which term describes the woolly mammoths?

- A** extinct
- B** thriving
- C** threatened
- D** endangered

62 A student wants to help conserve trees. Which activity should the student choose?

- F** washing laundry in hot water
- G** turning on an air conditioner
- H** using wind energy
- J** recycling paper

63 What happens when a strong magnet comes close to a small piece of iron?

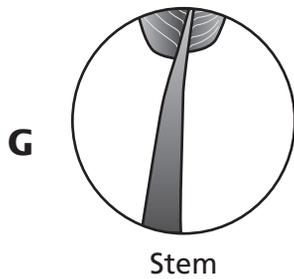
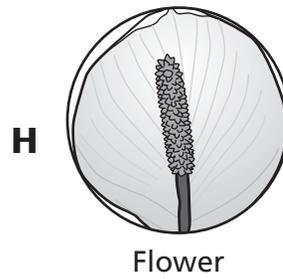
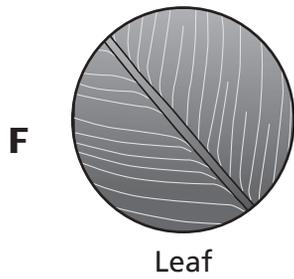
- A** The iron moves toward the magnet.
- B** The iron makes an electric spark.
- C** The iron becomes warm.
- D** The iron moves away from the magnet.

Go On ►

64 A student used a hand lens to look at parts of a plant.



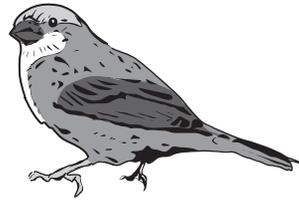
Which part helps take in most of the water for a plant?



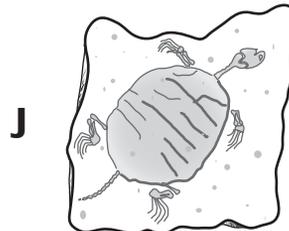
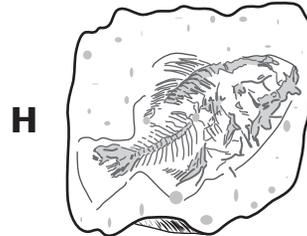
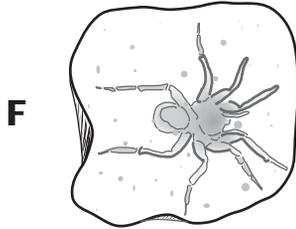
65 What gives animals the energy they need to survive?

- A** food
- B** space
- C** shelter
- D** climate

66 The picture below shows a bird.



Which fossil is most likely a relative of the bird?



Go On ►

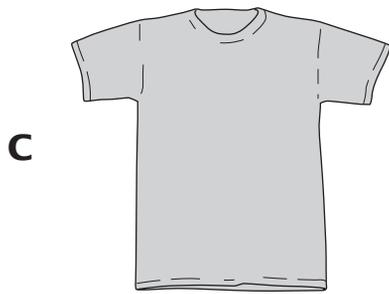
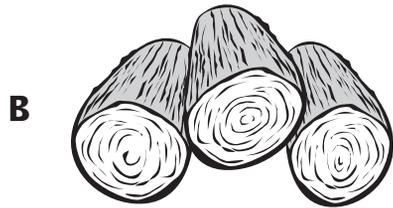
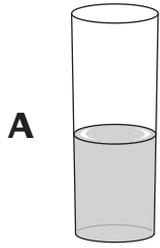
67 Which object is man-made?

- A** soil
- B** rock
- C** brick
- D** water

68 Which is the best method to separate iron filings mixed with sand?

- F** wash the mixture with water
- G** stir the mixture with a spoon
- H** pull a magnet through the mixture
- J** pour the mixture into separate cups

69 Which of these is most likely attracted to a magnet?



STOP 

**DO NOT
MARK
ON THIS
PAGE**

Science Answer Key

1	D
2	H
3	B
4	G
5	C
6	J
7	A
8	G
9	A
10	G
11	A
12	G
13	D
14	H
15	B
16	J
17	B
18	F

19	D
20	H
21	C
22	F
23	C
24	G
25	A
26	G
27	B
28	H
29	B
30	H
31	A
32	F
33	C
34	J
35	D
36	H

37	A
38	F
39	D
40	G
41	D
42	H
43	D
44	G
45	C
46	J
47	B
48	F
49	A
50	G
51	C
52	G
53	C
54	J

55	B
56	F
57	D
58	H
59	C
60	F
61	A
62	J
63	A
64	J
65	A
66	G
67	C
68	H
69	D



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Practice Test



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