STUDENT NAME _____

TAKS-M

Texas Assessment of Knowledge and Skills–Modified

GRADE 5
SCIENCE

Administered April 2009

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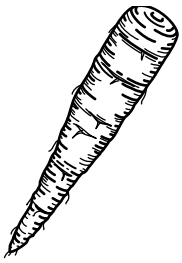
SCIENCE

DIRECTIONS
Read each question and choose the best answer. Then fill in the correct answer on your answer document.

SAMPLE

Which of these is a plant root?

A

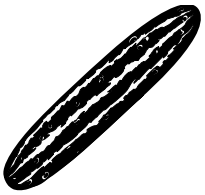


Carrot

B

Celery

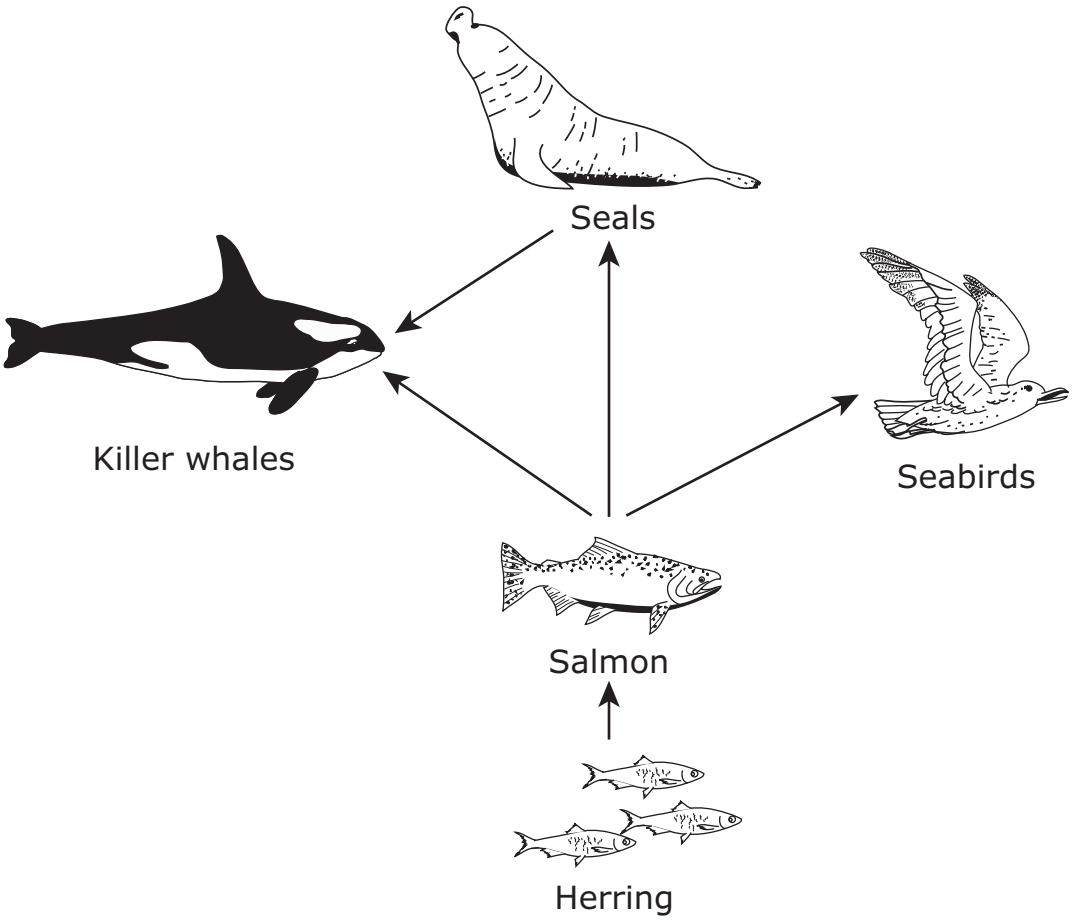
C



Cucumber

STOP

1 Look at the marine food web below.



What do seals eat?

A Herring

B Salmon

C Seabirds

GO ON

The word **energy** means the ability to do work or change matter.

2 What type of **energy** do plants use to make their food?

F Energy from electricity

G Energy from the sun

H Energy from sound

3 A student is giving five plants fertilizer to help them grow.

- The student adds fertilizer to a container of water.
- The student stirs the mixture.
- The student puts the mixture on the soil of the five plants.

Which safety practice should the student do after this activity?

A Wash hands

B Tie back hair

C Put on an apron

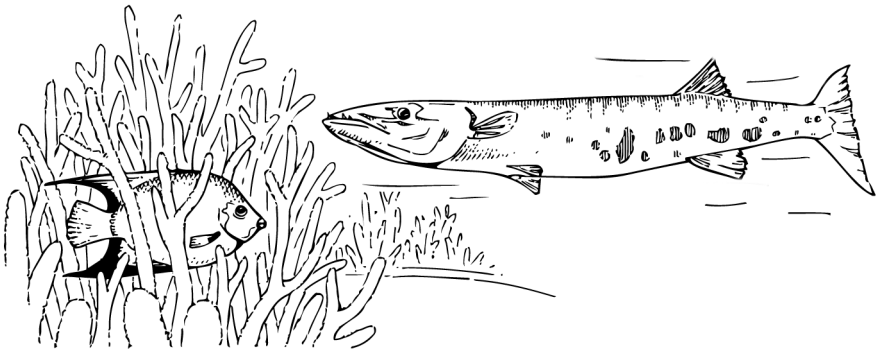
4 What is found on both the moon and Earth?

F Rivers

G A ring of dust

H Mountains

5 Look at the picture below. A small fish is hiding inside the coral to keep from being eaten by the larger fish.



What is protecting the small fish?

A Its food chain

B Its life cycle

C Its environment

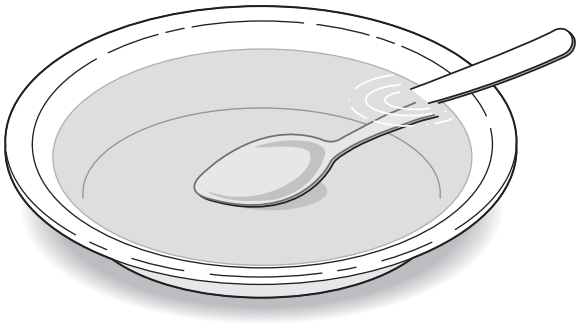
6 Students are doing an investigation. They do several steps and then repeat them. The steps are done the same way each time. What will repeating the steps most likely show?

F New findings

G Similar results

H Different conclusions

7 Look at the drawing below. It shows a spoon in a bowl of water. The spoon looks broken.



What makes the spoon look broken?

A The light is being refracted.

B The light is being conducted.

C The light is being absorbed.

A **nonrenewable resource** is a resource that takes millions of years to replace in nature.

8 Which of these is a **nonrenewable resource**?

F Air

G Coal

H Sunlight

9 A student has a magnet and some coins. What question could be answered by using only the magnet and the coins?

A Which coin is most valuable?

B How many coins equal one dollar?

C Do any of the coins contain iron?

10 A bicycle rider pedals quickly and then puts on the brakes. What changes when the bicycle rider puts on the brakes?

F The motion of the tires

G The mass of the bicycle

H The length of the chain

11 Look at the chart below. It is a record of the average sea level in centimeters (cm) at Galveston, Texas, from 1950 to 1975.

Sea-Level Records for Galveston, Texas

Year	Average Sea Level in Centimeters (cm)
1950	122
1955	122
1960	124
1965	125
1970	130
1975	132

How many centimeters (cm) did the average sea level change from 1950 to 1975?

A 2 cm

B 10 cm

C 254 cm

GO ON

12 Some mice dig burrows in the ground. These holes are used for shelter and to store food. Which best describes what the mice are doing?

F Changing the environment to meet their needs

G Working with other animals to get resources

H Making dirt traps to catch prey

A **glacier** is a huge mass of moving ice.

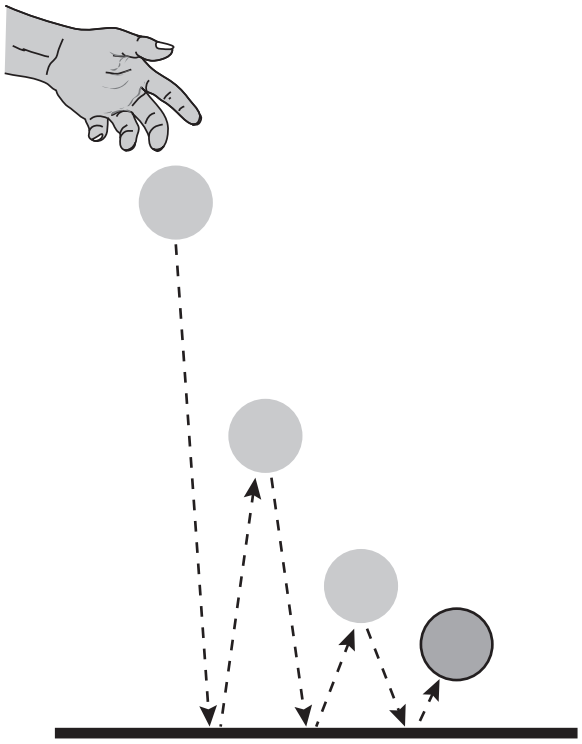
13 What can a **glacier** do to Earth's surface?

A Create fossils

B Scrape the land

C Cause lava flows

14 Look at the diagram below. It shows a ball as it falls and then bounces several times.



What will happen to the ball in the next few seconds?

F It will bounce higher.

G It will become flat.

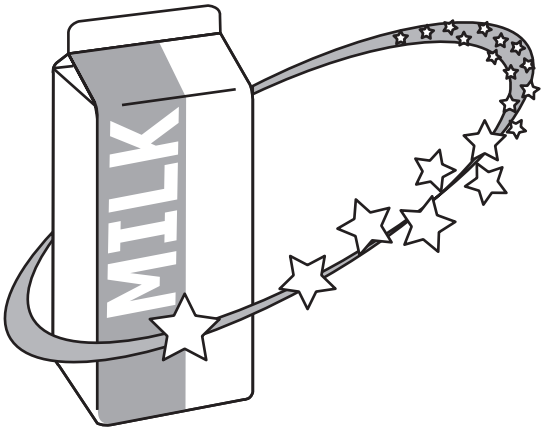
H It will stop moving.

GO ON

15 Look at the advertisement below. It shows how much calcium a person needs for growing strong bones and teeth.

Make a difference with milk

Milk for strong bones and teeth



How much calcium do you need each day?

Age (in years)	Calcium (in milligrams—mg)
1–3	500
4–8	800
9–18	1,300

In which of these age groups do a person's teeth and bones most likely grow the most?

A 1–3

B 4–8

C 9–18

GO ON

16 Which of these is an important part of how most soil forms?

F Weathering of rocks

G Pressure building within Earth

H Magma rising inside a volcano

17 Look at the food chain below.

Food Chain

Grass → Mice → Owls

Which is the producer in this food chain?

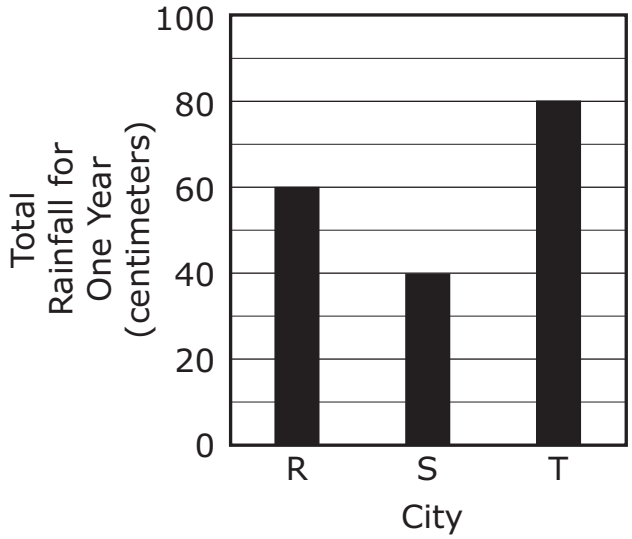
A Mice

B Owls

C Grass

GO ON

18 Look at the bar graph below. It shows the total amount of rainfall in three different cities for one year.



Which city had the driest year?

F R

G S

H T

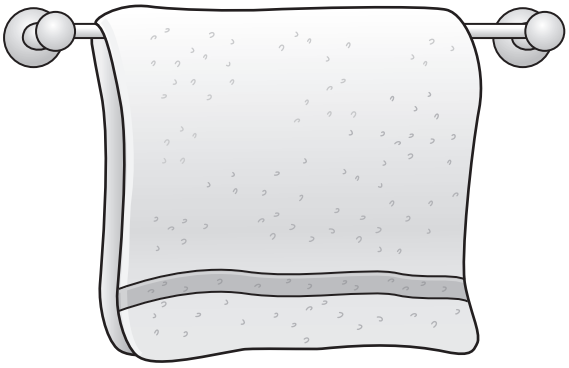
19 A mixture can be made by combining two or more substances. Which of these mixtures is the easiest to separate?

A Water and sugar crystals

B Water and flour

C Water and beans

GO ON



20 Ten hours ago the towel shown above was wet. Now it is dry. This is the result of —

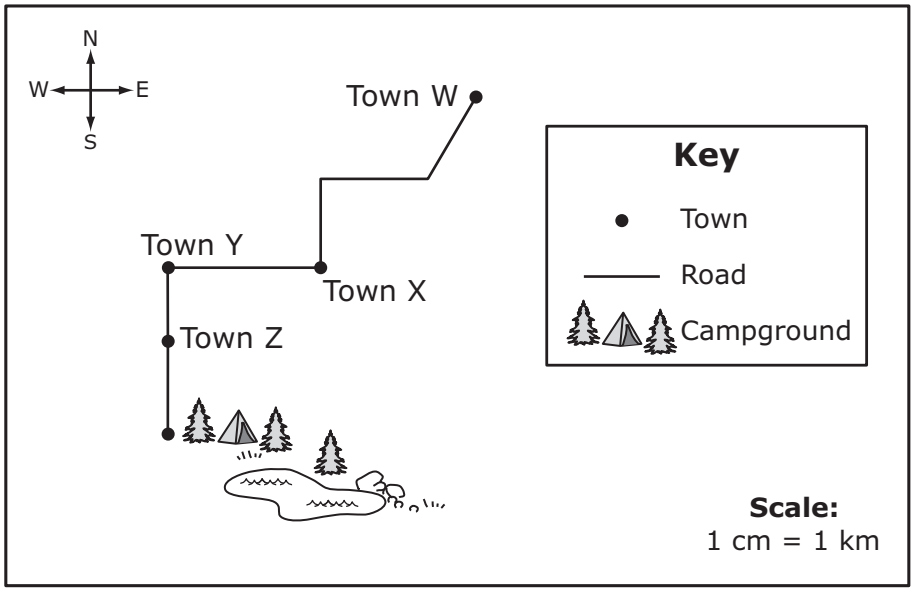
F respiration

G evaporation

H precipitation

GO ON

21 Look at the map below. It shows a campground, four towns, and the roads that connect them.



The scale on the map is 1 centimeter (cm) = 1 kilometer (km). Use your ruler to find which two towns are about 2 kilometers apart.

A Town W and Town Y

B Town W and Town Z

C Town X and Town Y

GO ON

Adapt means to make changes in order to better live in an environment.

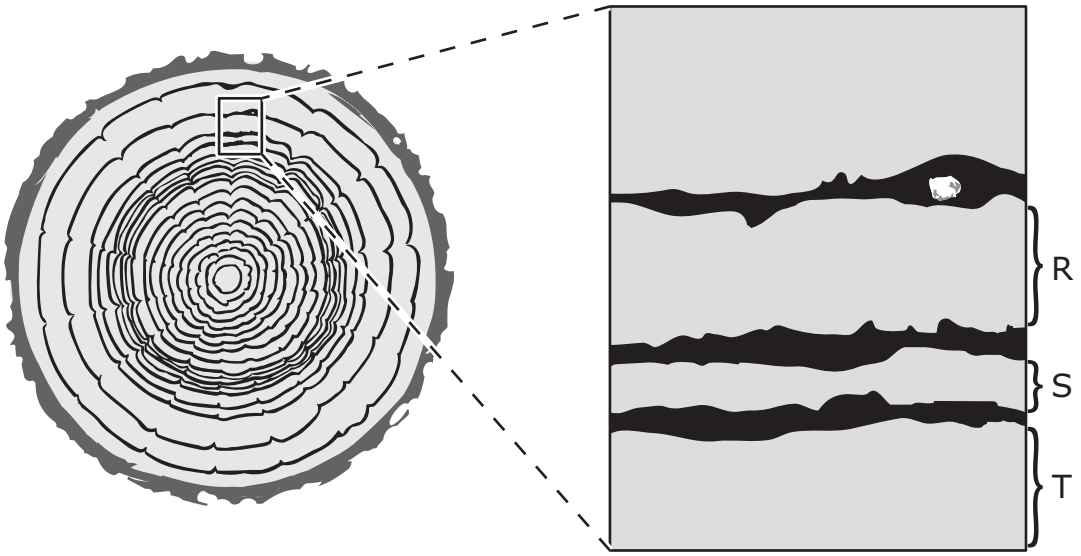
22 Which is an example of how a forest animal **adapts** to living in a city?

F A bird makes a nest under a bridge.

G A monkey swings from a tree branch.

H A bear catches a fish in a stream.

23 Look at the picture of the tree rings R, S, and T below. Each tree ring shows how much the tree grew in one year.



Which tree ring shows the least amount of growth for the year?

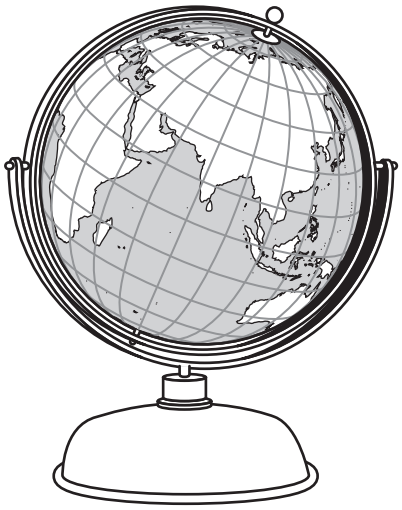
A R

B S

C T

GO ON

24 A teacher showed the science class a globe like the one below.



What can be learned about Earth by studying a globe like this?

F The actual size of Earth

G The location of landmasses on Earth

H The distance between Earth and the sun

An **insulator** is a material that allows little or no electricity or heat to flow through it.

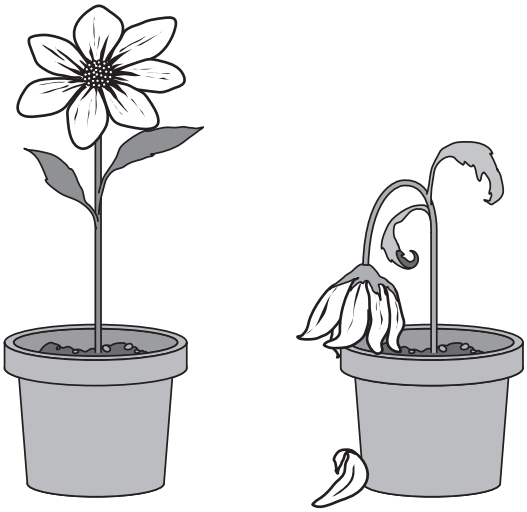
25 Which of these lists shows only **insulators**?

A Plastic, wood, glass

B Wood, copper, glass

C Silver, wood, plastic

26 Look at the plants below.



Plant 1 Plant 2

What is the most likely reason Plant 1 looks different from Plant 2?

F Plant 1 received more oxygen.

G Plant 1 received more water.

H Plant 1 received fewer minerals.

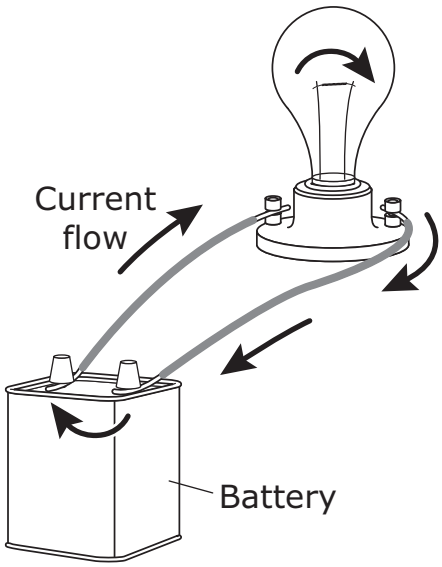
27 Which of these happens once every day in Texas?

A A full moon moves toward the west.

B Earth changes seasons.

C The sun appears to rise in the east.

28 Look at the picture below. It shows an electric circuit.



According to the information in the picture, what must the current in a circuit do?

F Move in a path

G Cool a battery

H Jump through the air

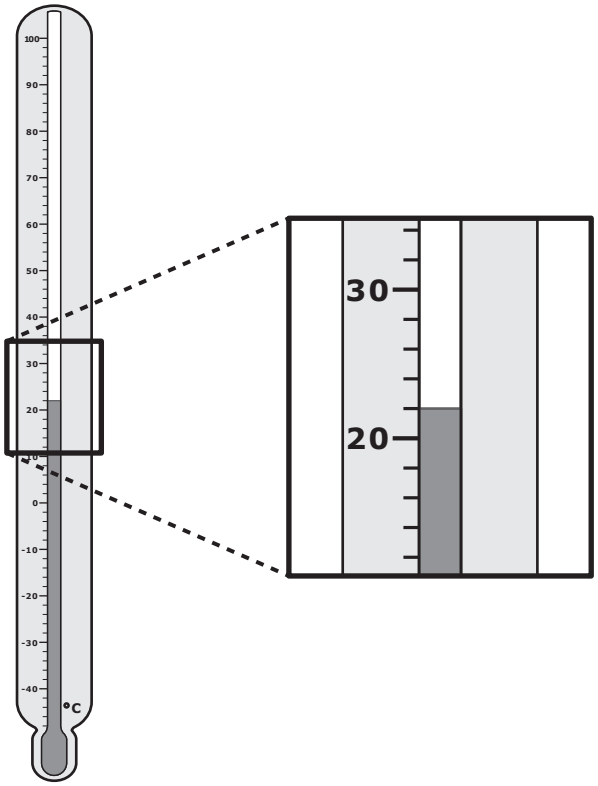
29 Which of these could a dog inherit from its parents?

A Thick brown fur

B A scar on its leg

C Sitting on command

30 Look at the thermometer below.



What is the temperature reading on this thermometer?

F 34°C

G 25°C

H 22°C

GO ON

31 How do birds help plants spread to other places?

A They sing to birds in other areas.

B They eat worms under trees.

C They drop seeds in different areas.

32 Which tool would be best to observe ants in their natural environment?

F Metric ruler

G Hand lens

H Thermometer

BE SURE ALL OF YOUR ANSWERS ARE RECORDED ON THE ANSWER DOCUMENT.

STOP

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