

Assessments Key

SCIENCE

1



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Using the *SCIENCE 1* Assessments

Tests

Tests can serve as an objective part of the assessment of a student's progress. The most effective tests are an outgrowth of the teaching process. Accordingly, the tests should not replace your individual assessment of a student's understanding and application.

These tests can be adjusted in accordance with the teaching emphasis. You may find it necessary to eliminate some items and/or provide additional test items.

Most items on a test are valued at one point. In some sections, however, you may choose to adjust the point values. In a section requiring longer answers, the answers may be valued at more than one point.

Rubrics

A rubric is a useful tool for assessing work that is not objective, such as the Investigation, Exploration, and STEM activity lessons. Specific rubrics for each Investigation, Exploration, and STEM lesson are provided in this packet.

In a group activity it is often beneficial not only to give a grade to the group as a whole but also to give each student an individual grade. Your scores and comments on a rubric allow the student to see why he or she received a particular grade and what areas need improvement.

Test 1

Name _____



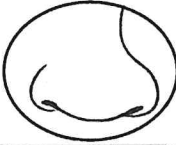


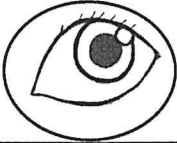




Circle the answer.

1. What is the study of God's world called? science senses
2. What is a person who studies God's world called? poet scientist
3. What do you do with your senses to find out about something? question observe
4. What does the word *image* mean? likeness mirror
5. What did God give you to find out about the world? senses worldview

Mark the answer.

6. Genesis 1:28 says that scientists and other people should ____ the earth.
 clean up rule over
7. Mark 12:31 tells scientists and other people to ____ others.
 love believe in
8. People study science to ____ others.
 force help

Circle the part of the body you use for each sense.

9. smell					
10. sight					

Draw a line from each biblical worldview question to the correct answer.

11. Where did our world come from?

12. Why do things work together the way they do?

13. Who are we? Why are we here?

14. Why is science important?

We learn science to take care of the earth and help people.

God created a perfect world.

God designed the parts of the earth to work together.

We are made in God's image to rule over the earth.

Write About It

Dr. White is a scientist.

She is looking at an old bone.

The way she thinks will help explain what she finds.

Write about what Dr. White has that helps her explain what she finds.

Answer should include that Dr. White has a worldview that helps her explain what she finds.

Test 2

Name _____

Mark the answer.

1. The skills that help a scientist to discover and use facts are called science ____ skills.

- process design

2. A scientific test to find an answer to a question is an ____.

- operation investigation

3. An object that helps scientists work is a science ____.

- toy tool

4. The possible answer to a question in the scientific method is the ____.

- hypothesis procedure

5. The steps in an investigation are called the ____.

- problem procedure

6. People learn about God's world by using their senses to ____.

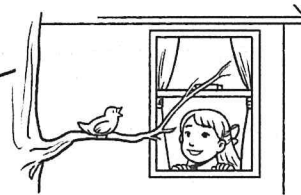
- observe think

Draw a line to match the science process skill with the correct picture.

7. classify



8. measure

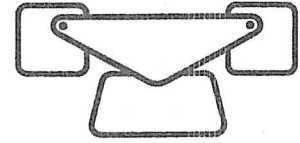
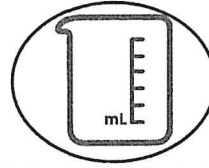


9. observe

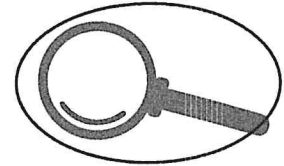


Circle the science tool that matches the description.

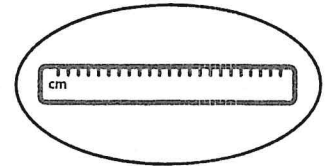
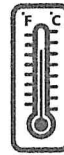
10. a measuring cup used by scientists



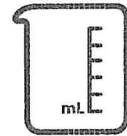
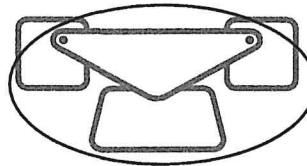
11. makes small things look bigger



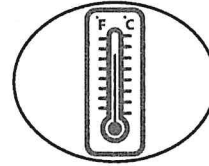
12. measures how long something is



13. measures how heavy something is



14. measures how hot or cold something is



Write About It

Sam's teacher asked the class to read Genesis 1:28.

The teacher told the class that it is important to measure carefully when using science tools.

Sam cannot remember why he should measure carefully.

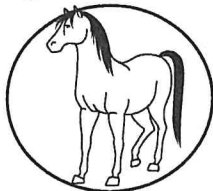
Explain why it is important for Sam to measure carefully.

Possible answers: Science tools help people care for, or manage, the earth.

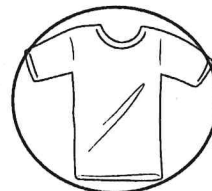
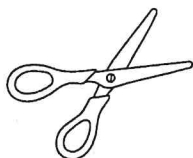
Test 3

Name _____

Circle two living things.

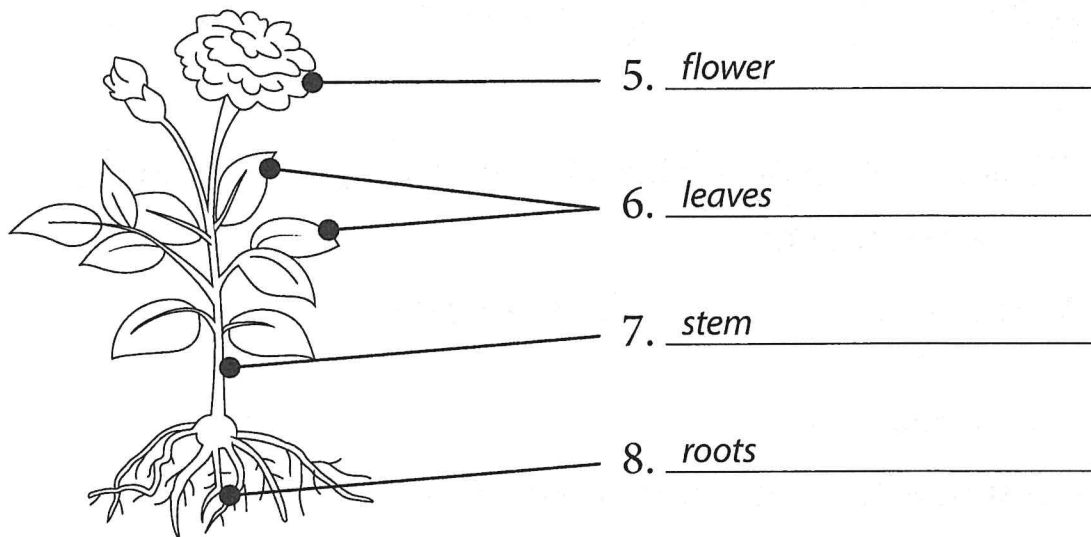


Circle two things made from plants.



Label the parts of the plant.

flower leaves roots stem



Circle **yes** if the answer is correct. Circle **no** if the answer is not correct.

9. The roots of the plant make seeds. yes no

10. God designed the plant stem to hold up the plant. yes no

11. All the steps of the life of a living thing are a life cycle. yes no

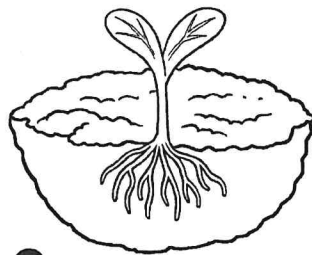
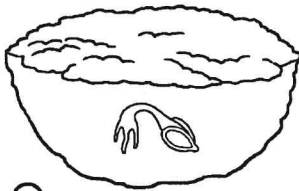
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Mark the answer.

12. Plants need air, dirt, light, and space. What else do plants need to survive and grow?

- water animals

13. Which picture shows a seedling?



14. Genesis 1:11 tells us that God created plants to make ___ kind of plant.

- the same a different

Write About It

Mrs. Smith asked the students to read Genesis 3:17–18. The Bible says that plants changed when Adam sinned.

Write about how plants changed when Adam sinned.

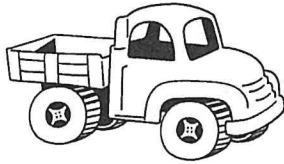
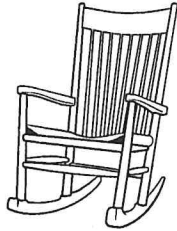
Before Adam sinned all plants were perfect. After Adam sinned there are now thorns and thistles.

Test 4

Name _____

Mark the answer.

1. Which is a living thing?



2. What are the needs of animals?

air, food, shelter, space, and water

air, food, shelter, and space

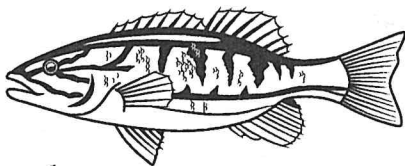
air, dirt, light, space, and water

3. In which group does this animal belong?

birds

fish

mammals



4. Which group of animals has fur or hair?

birds

fish

mammals

5. Which group of animals has feathers and wings?

birds

fish

mammals

6. Why can a fish breathe under water?

It has gills.

It has scales.

It has fins.

7. Who is a zoologist?

a scientist who studies and takes care of animals

an engineer who designs zoos

a doctor who takes care of babies

Mark **yes** if the sentence is correct. Mark **no** if the sentence is not correct.

8. An environment is all the nonliving things around a plant or animal.

- yes
- no

9. God said that the offspring will be the same kind as its parents.

- yes
- no

10. Offspring are always the same size and same color as their parents.

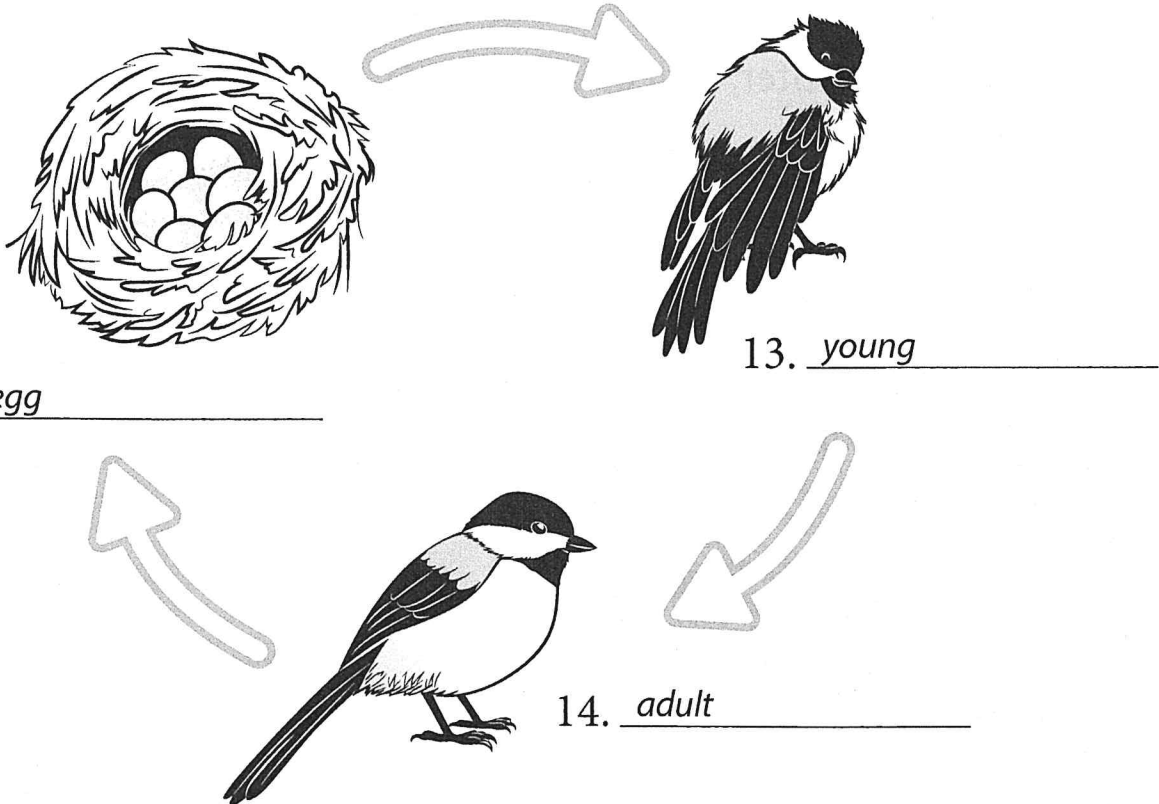
- yes
- no

11. God designed animals and their environments to work together to survive and grow.

- yes
- no

Label the robin's life cycle.

adult egg young



Name _____

Write About It

The gerbils ran through the tunnels. The adult gerbil had babies. Carlos liked to watch the babies. They were getting bigger every day. One day Carlos found a dead gerbil. He was puzzled. All the gerbil's needs had been met. Why do animals die?

Explain from the Bible why animals die.

Answers should include that death happens because of Adam's sin, or the Fall.

Test 5

Name _____

Circle **yes** if the sentence is correct.
Circle **no** if the sentence is not correct.

1. The five needs of animals are different from the five needs of people. yes no
2. Your body uses the food from your stomach to give your body shape. yes no
3. To praise God means to thank Him for who He is and what He does. yes no
4. Psalm 139:14 tells people to praise God because they are fearfully and wonderfully made. yes no

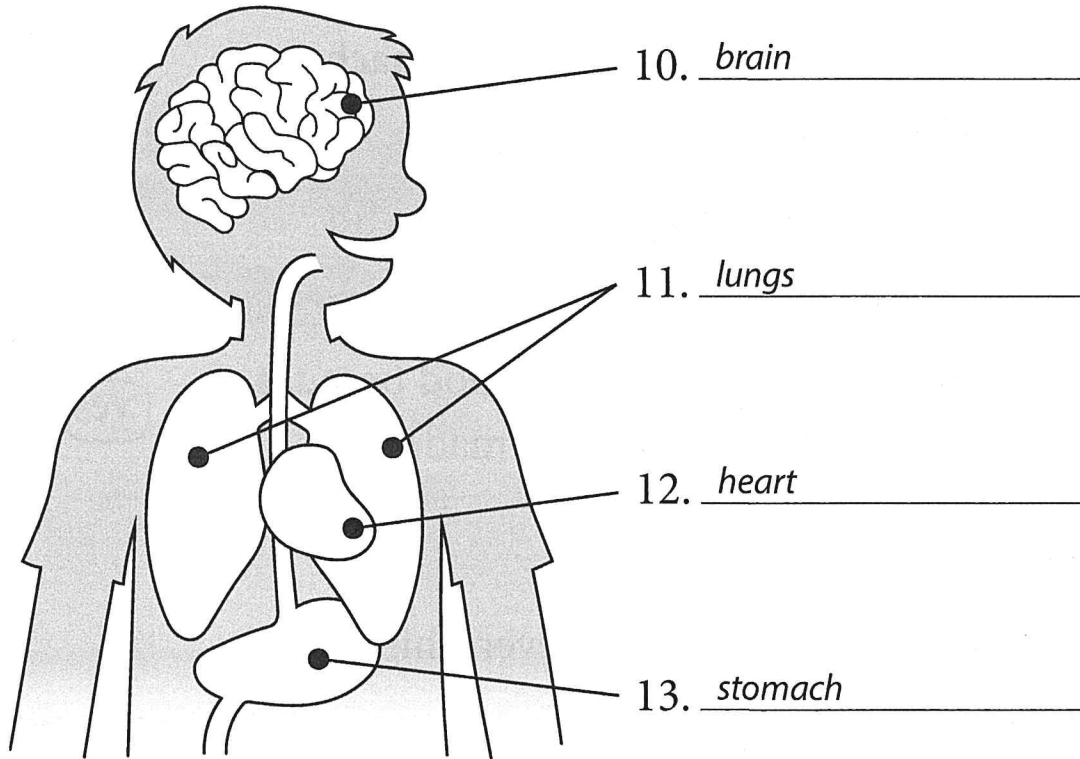
Write the number of the correct answer.

- 5 the body part that controls everything in the body
- 6 the body parts that help you stand
- 9 the body part that uses the sense of smell
- 7 the body parts that fill with air when you breathe in
- 8 the body parts that make the bones and other body parts move

- 5 brain
- 6 legs
- 7 lungs
- 8 muscles
- 9 nose

Label the diagram.

arm brain heart leg lungs stomach



Circle the answer.

14. Your outside body parts help

you get food and water
break down swallowed food

15. The parts of the body survive and grow

because of God's praises
God's design

Name _____

Write About It

You are in a tent with your friend and your dog, Snippy. Your friend tells you that you are no different from your dog.

Write how you would answer your friend.

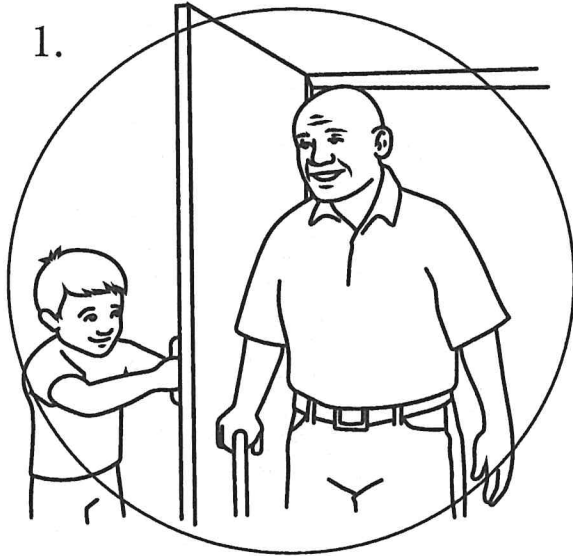
Answers should include one of the following: God created people in His image; people can talk to God and each other, and God can talk to people; people can love God and each other; people will live somewhere forever.

Test 6

Name _____

Circle the picture that shows a kind act.

1.



2.



Mark the answer.

3. Genesis 1:27 tells us to treat other people with kindness because ____.

- they will give me things they are made in God's image

4. It is important to have healthy habits to ____.

- care for your body spread germs to other people

5. It is important to have safe habits because ____.

- they will not keep me from getting hurt
 God made my body and I need to care for it

6. Who is a trustworthy adult?

- a firefighter a stranger

7. You are playing in your bedroom. You hear the smoke detector's alarm. What is the first thing that you should do?

- Call 911. Leave the house quickly.

Circle **yes** if the sentence is a healthy habit. Circle **no** if it is not a healthy habit.

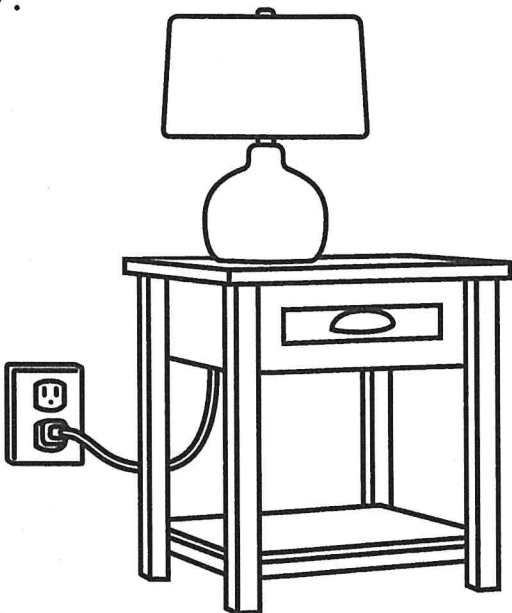
- | | | |
|--|--------------------------------------|-------------------------------------|
| 8. Eat food that is good for you. | <input checked="" type="radio"/> yes | <input type="radio"/> no |
| 9. Stay up late and do not get the sleep you need. | <input type="radio"/> yes | <input checked="" type="radio"/> no |
| 10. Cough without covering your mouth. | <input type="radio"/> yes | <input checked="" type="radio"/> no |
| 11. Wash your hands to keep germs away. | <input checked="" type="radio"/> yes | <input type="radio"/> no |
| 12. Brush your teeth twice a day. | <input checked="" type="radio"/> yes | <input type="radio"/> no |

Mark three safe habits.

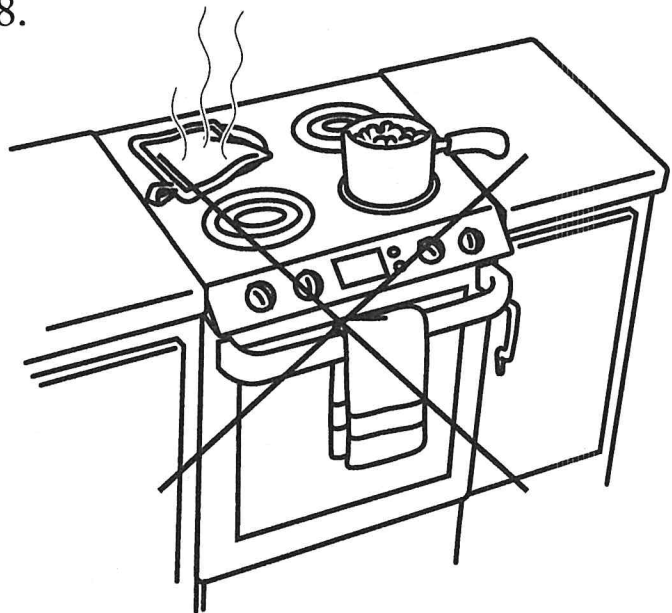
- 13. Sit in a booster seat and wear a seatbelt in the car.
- 14. Stop, look, and listen before crossing the street.
- 15. Ride a bike without a helmet.
- 16. Obey playground rules.

Draw an X on the picture that shows fire danger.

17.



18.



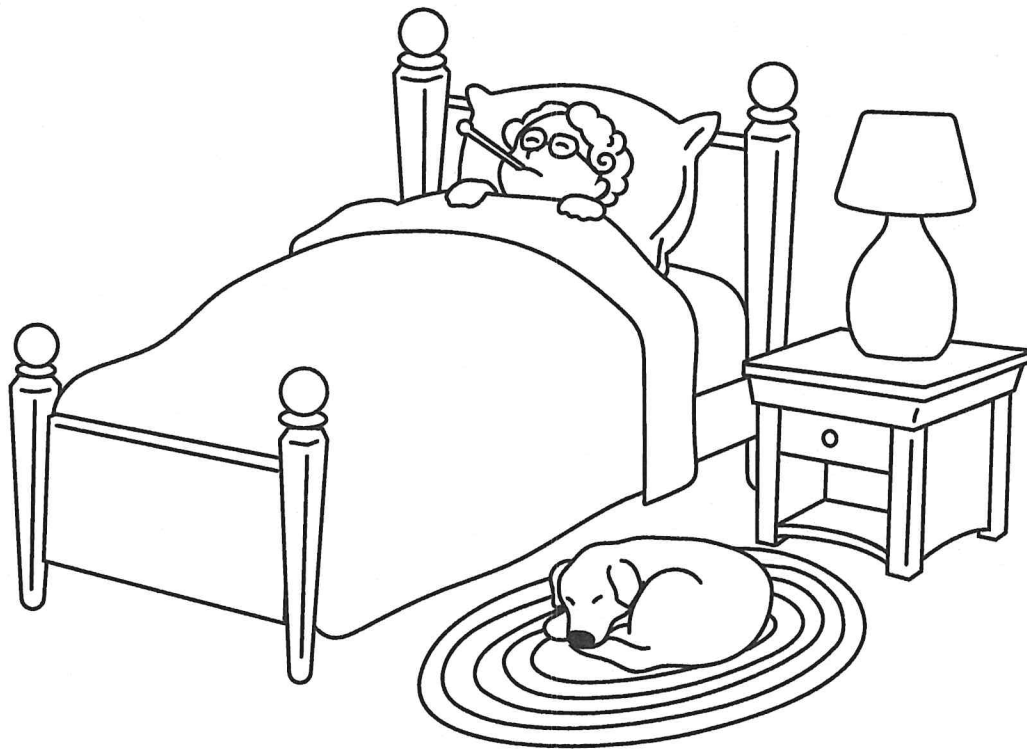
Name _____

Write About It

The woman who lives next door is sick.
She must stay in bed.

What is one way you and your family can show her kindness?

Possible answers: take her food; walk her dog; pick up her mail; sit with her



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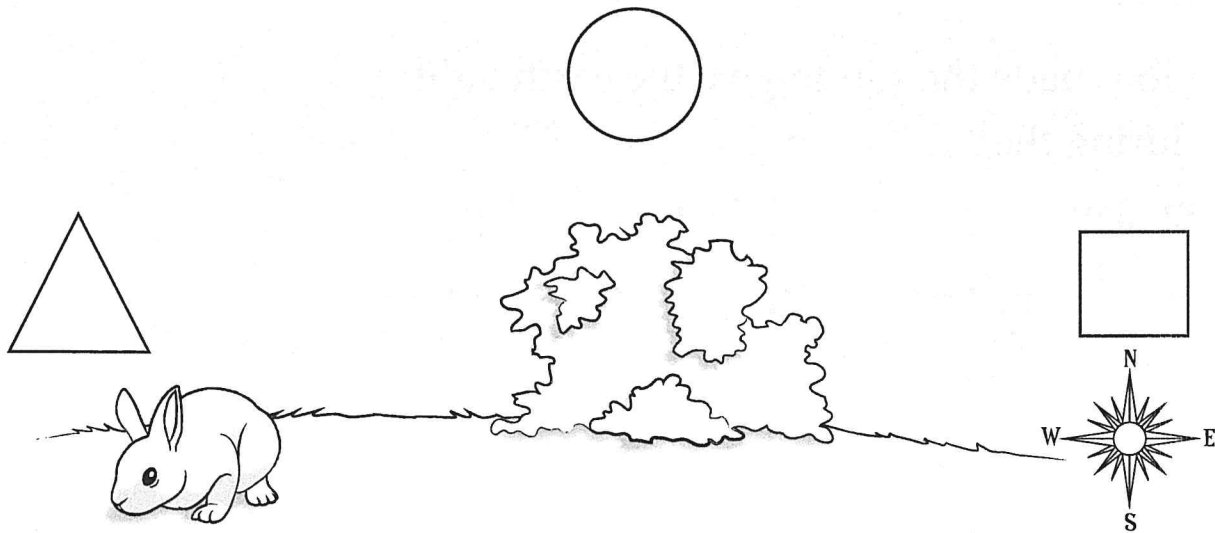
Mark the answer.

1. A tool used to make far away things look closer is a ____.
 thermometer telescope
2. The closest star to the earth is the ____.
 moon sun
3. A person who travels into space is ____.
 an astronaut a landscape architect
4. If there is a new moon today, in about 29 days what phase will the moon be in?
 full new
5. God made the sun to give the earth light during the ____.
 day night
6. The big ball of rock that moves around the earth is the ____.
 moon sun
7. The earth rotates ____ each day.
 twice once
8. How do we know how the earth, sun, moon, and stars were made?
 God told us in Genesis 1 that He made them.
 Some books say that they were made after a big bang happened.

Circle **yes** if the statement is correct. Circle **no** if the statement is not correct.

- | | | |
|--|--------------------------------------|-------------------------------------|
| 9. A star makes its own light. | <input checked="" type="radio"/> yes | <input type="radio"/> no |
| 10. The sun is smaller than the earth and the moon. | <input type="radio"/> yes | <input checked="" type="radio"/> no |
| 11. Stars shine only during the nighttime. | <input type="radio"/> yes | <input checked="" type="radio"/> no |
| 12. The sun warms the earth. | <input checked="" type="radio"/> yes | <input type="radio"/> no |
| 13. The Bible says in Genesis 1 that God made the earth, sun, moon, and stars. | <input checked="" type="radio"/> yes | <input type="radio"/> no |

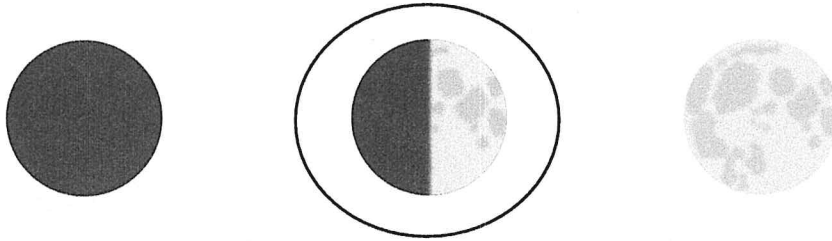
Complete the picture to show how the sky changes each day.



14. Draw a **square** in the sky to show where the sun will be at sunrise.
15. Draw a **circle** in the sky to show where the sun will be around noon.
16. Draw a **triangle** in the sky to show where the sun will be at sunset.

Circle the first quarter phase of the moon.

17.



Write About It

Juan and his father are looking at the nighttime sky. Juan's father wants Juan to tell him how the sky changes each day. Juan cannot remember everything he learned.

Explain to Juan how the sky changes each day.

Answers should include some of the following: Because the earth rotates, the sky changes

each day. In the daytime we see the sun. The sun rises in the east and sets in the west.

Around noon the sun is overhead. During the nighttime we see the moon and stars. We see

the moon in a different phase, or shape, each night.

Test 8

Name _____

Number the seasons in order. Begin with winter.

1. 1 winter

3 summer

4 fall

2 spring

Circle the answer.

2. The earth revolves around the sun.
rotates

3. A thermometer is a tool that measures temperature.
time

4. The earth revolves around the sun in one year.
day

5. Fall is a time of harvest.
resting

6. Spring is a time of planting.
growing

7. Daylight is shortest in winter.
summer

Circle the answer.

8. Daylight is longest in summer
spring .

9. Temperature is how hot or cold
bright or dark something is.

10. The temperature is hottest in summer
fall .

11. The temperature is coolest in winter
fall .

Write the answer.

cycle designs revolves rotates tilt

12. Seasons are caused by the earth's tilt _____.

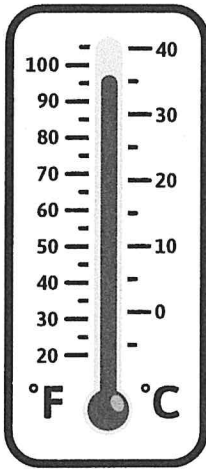
13. Seasons are caused when the earth revolves _____ around
the sun.

14. A landscape architect is an engineer who designs _____
spaces for plants.

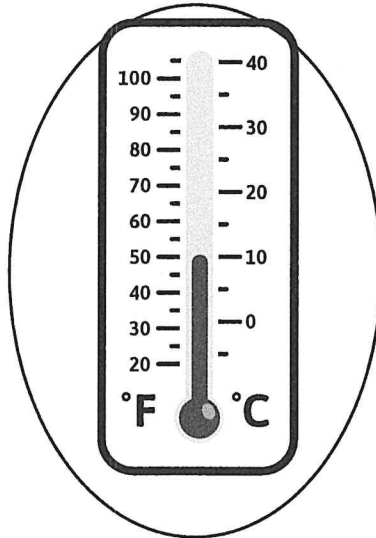
15. God designed the seasons to be a cycle _____.

Name _____

Record the temperature on the thermometer.
Circle the thermometer that shows a cooler temperature.



16. 95 °F



17. 50 °F

Write About It

Your friend tells you that the seasons became the way they are now by chance after many, many, many years.

Use Scripture to defend where the seasons come from.

Answers should include that in Genesis God tells us that He gave us the seasons or that God

promised in Genesis there will always be seasons.

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Test 9

Name _____

Circle the answer.

1. The word that describes what the air outside

is like is water
 weather.

2. Temperature is how hot or cold
 large or small something is.

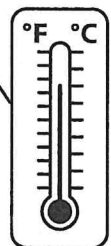
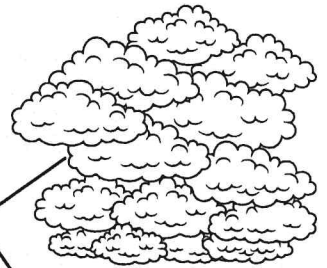
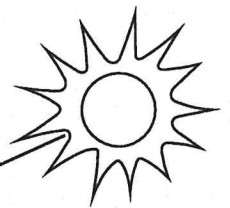
3. Moving air is called snow
 wind.

Draw a line to match the phrase with the correct picture.

4. is used to measure the air temperature

5. warms the air in the daytime

6. is formed by water that cools in the air



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Mark the answer.

7. How does water on the earth move?

- to the right in a cycle

8. Weather ____ from day to day.

- changes stays the same

9. A scientist who studies the weather is ____.

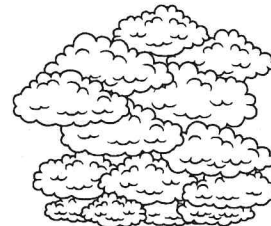
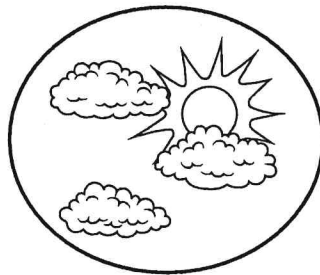
- a zoologist a meteorologist

10. When a meteorologist makes a careful guess at what may happen, the meteorologist ____ the weather.

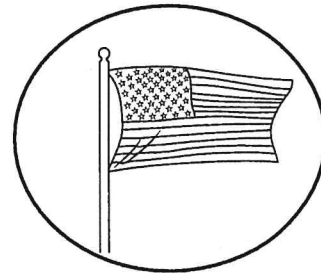
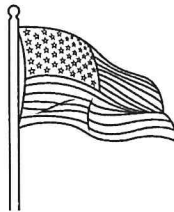
- records predicts

Circle the weather symbol that matches the sentence.

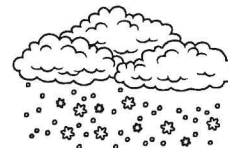
11. It is partly cloudy.



12. There is a strong wind.



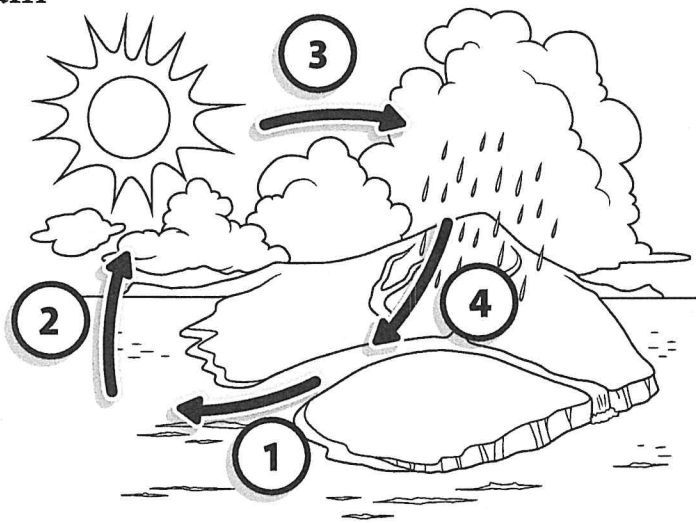
13. Rain is falling from the sky.



Mark the answer.

14. Number 2 in the water cycle is showing what happens when ____.

- the sun heats up the water and the water goes up into the air
- the water cools in the air and the water falls as rain



Write About It

Maria and Sarah were talking. Maria said that science gives us the most trustworthy information about our world. Sarah said that the Bible gives us the most trustworthy information.

How would you explain to Maria and Sarah what gives us the most trustworthy information about our world?

Possible answers: Science is useful but not always right. The Bible is always right because it

is God's Word. We can trust God and His Word all the time. If science and the Bible disagree,

the Bible is right.

Test 10

Name _____

Mark the answer.

1. What is light?

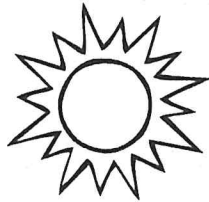
- a form of the earth
- a form of energy that people need in order to see

2.



- It is a manmade light.
- It is a natural light.

3.



- It is a manmade light.
- It is a natural light.

4.

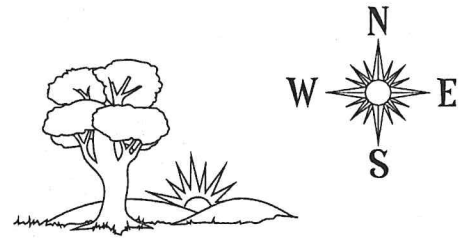


- It is a manmade light.
- It is a natural light.

5. Who is an electrician?

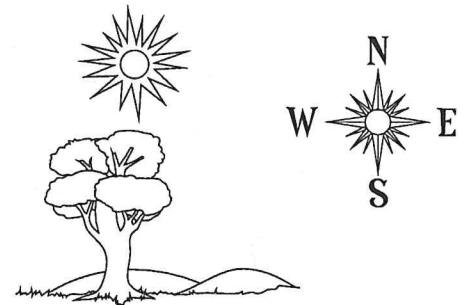
- a person who works with electricity
- a person who works with plants

6.



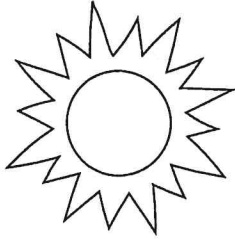
- The shadow for the tree will be short.
- The shadow for the tree will be long.

7.



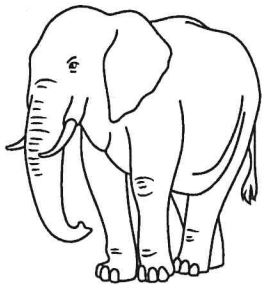
- The shadow for the tree will be short.
- The shadow for the tree will be long.

8.



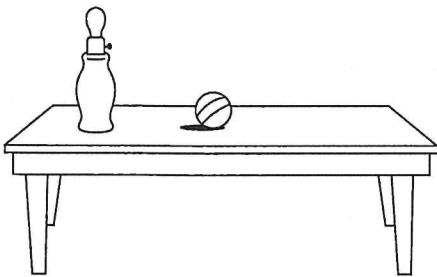
- The sun is illuminated with its own light.
- The sun is not illuminated with its own light.

9.



- The elephant is illuminated with its own light.
- The elephant is not illuminated with its own light.

10.



- The lamp is in the right place to cause the shadow to form.
- The lamp is in the wrong place to cause the shadow to form.

11. Anything that allows some light to travel through it is ____.

- transparent
- translucent
- opaque

12. Anything that allows most light to travel through it is ____.

- transparent
- translucent
- opaque

13. Anything that does not allow light to travel through it is ____.

- transparent
- translucent
- opaque

14. A shadow is formed when an object blocks ____.

- electricity
- light
- stars

Name _____

15. How does light travel?

- in a wavy line
- around corners
- in a straight line

16. When light hits an object, the object _____ that light.

- reflects
- covers
- puts out

17. What is a mirror?

- a dull glass that reflects light
- a shiny glass that reflects light
- a shiny glass that puts out light

Write About It

Your friend believes light came from a tiny speck that went bang! You believe God created light.

Explain to your friend where light came from. Use a Bible verse in your answer.

Answers should include that Genesis 1:3 says that God spoke and there was light.

Write how the sound is being made.

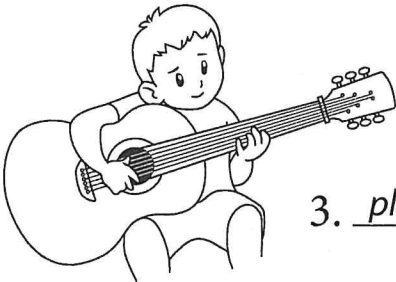
blowing hitting plucking rubbing shaking



1. shaking



2. blowing



3. plucking

Circle **yes** if the answer is correct. Circle **no** if the answer is not correct.

4. Sound is a form of energy you can hear. yes no

5. Sound travels in waves. yes no

6. Sound travels in only one direction at a time. yes no

7. Sound travels through matter. yes no

8. God designed the human ear to hear sounds. yes no

9. All sounds are good for your ears to hear. yes no

Mark the answer.

10. What do sound waves make the inside of your ear do?

- vibrate stand still

11. What do we call how loud or soft a sound is?

- pitch volume

12. A sound's ____ is how high or low the sound is.

- pitch volume

13. A loud sound is a ____.

- bird peep hammer bang

14. A high pitch is a ____.

- kitten's meow lion's roar

Write About It

Cassie and Tyler are listening to the school band.

Cassie wants to know how sound changes.

Help Tyler explain to Cassie how sound changes.

Sound has volume and pitch. Sounds can be loud or soft. Sounds can be high or low.
