

**Benchmark Assessment SC.5.N.1.1****Fill in the letter of the best choice.**

- ① Scientists want to determine if how loud music is played affects a person's blood pressure. Which variable should change in the experiment?

(A) the type of music played  
(B) the amount of time the person hears the music  
(C) the volume of music played  
(D) the tools used to test the blood pressure

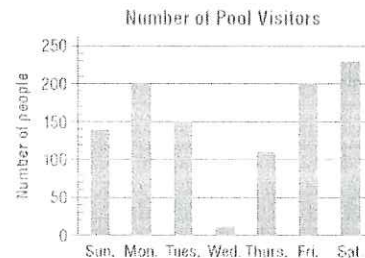
- ② Shayla observes the change from caterpillar to butterfly. She draws and labels each phase and shares her drawings with the class. Which statement **best** describes Shayla's investigation?

(F) It involves modeling.  
(G) It involves experimentation.  
(H) It involves repeated observations.  
(I) It involves both experimentation and repeated observation.

- ③ Jermaine uses cell phone Internet service from provider A. Ricardo uses Internet service from provider B. How can Jermaine and Ricardo determine in a scientific way which Internet company has faster download speeds?

(A) Read information from each Internet service provider.  
(B) Use a timer to find out how long it takes to download the same game.  
(C) Have each student download a different game and compare the time it took.  
(D) Ask ten friends who use each Internet service which one is faster.

- ④ Chen counts the number of people who visit the community pool each day for 1 week. He displays his data using a bar graph.



How many more people did Chen observe at the pool on Friday than on Thursday?

(F) 19  
(G) 200  
(H) 100  
(I) 90

- ⑤ Teresa has been growing plants without fertilizer. Now, she wants to see what happens to the plants when the amount of fertilizer is increased, as shown in the chart.

Plant	Amount of Fertilizer
1	No fertilizer
2	1 teaspoon every week
3	1 teaspoon twice per week
4	1 teaspoon once every two weeks

Which plant is the control?

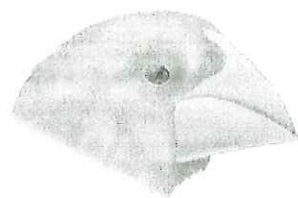
(A) 1  
(B) 2  
(C) 3  
(D) 4



## Benchmark Assessment SC.5.N.2.1

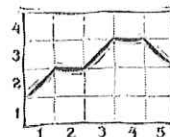
Fill in the letter of the best choice.

- ① If an investigation was done using these birds, which is the **best** possible conclusion?



- Ⓐ Since the bird on the top weighs more, it flies faster.
  - Ⓑ The bird on the bottom is more attractive.
  - Ⓒ The bird on the bottom flew from perch A to perch B faster over 10 trials, so it flies faster.
  - Ⓓ The bird on the top flew from perch A to perch B faster one time, so it flies faster.
- ② Which is an opinion?
- Ⓕ The boiling point of water is 100 °C.
  - Ⓖ Blue is the best color for parrot fish.
  - Ⓗ Bats use sonar to fly at night.
  - Ⓘ The ball rolled 10.2 feet over four tries.

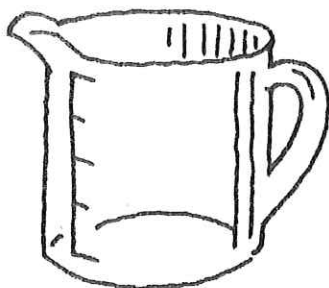
- ③ For what can scientists use the data in the graph?



- Ⓐ evidence
  - Ⓑ opinion
  - Ⓒ conclusion
  - Ⓓ investigation
- ④ What is **not** a possible observation of salmon swim upstream to spawn?
- Ⓕ Salmon start their spawning season in the fall.
  - Ⓖ Bears easily prey on salmon as they swim upriver.
  - Ⓗ The average weight of a spawning salmon is 7.2 pounds.
  - Ⓘ Most of the salmon seem to be of adult size.
- ⑤ Why do scientists publish the results of their investigation in science journals?
- Ⓐ They want to show other scientists what they are doing wrong.
  - Ⓑ It is a requirement for being a scientist.
  - Ⓒ They want others to support their opinions.
  - Ⓓ They communicate and share their findings so that scientific knowledge grows.

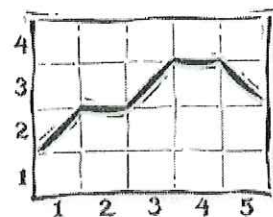
**Benchmark Assessment SC.5.N.2.2****Fill in the letter of the best choice.**

- 1 Why is it important to use accurate measuring devices when doing an experiment?



- (A) to make sure substances are pure  
(B) to ensure that the procedures can be repeated accurately  
(C) to make it more convenient  
(D) to avoid spilling the sample
- 2 In an experiment to determine how far an object will slide on different surfaces, what is the variable?
- (F) size of the object  
(G) type of surface  
(H) force that the object is pushed  
(I) length of the surface

- 3 What does this graph show?



- (A) data  
(B) control  
(C) conclusion  
(D) hypothesis
- 4 What is the **best** way to present data that is changing over time?
- (F) circle graph  
(G) table with time and recorded data  
(H) line graph  
(I) diagram of the lab setup
- 5 What is **not** a reason to keep a neat lab notebook when conducting experiments?
- (A) to be able to repeat all parts of the experiment  
(B) to accurately record all data  
(C) to record data analysis that supports conclusions  
(D) to be able to accurately change data to support your hypothesis

## Benchmark Assessment SC.5.E.5.1

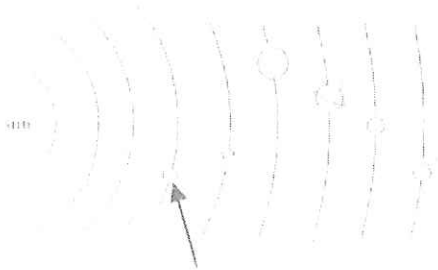
Fill in the letter of the best choice.

- 1 Which describes our sun?
- (A) hot compared to other stars
  - (B) very large compared to other stars
  - (C) cool and small compared to other stars
  - (D) medium-sized compared to most other stars
- 2 A star is blue in color. How does a star compare to the sun?
- (F) It is hotter than the sun.
  - (G) It is cooler than the sun.
  - (H) It is closer to Earth than the sun.
  - (I) It looks brighter to Earth than the sun.
- 3 Which is **true** of the Milky Way?
- (A) The Milky Way galaxy cannot be seen from Earth.
  - (B) The Milky Way galaxy is the only galaxy in space.
  - (C) The Milky Way galaxy contains the planet Earth.
  - (D) The Milky Way galaxy is very near to Earth's galaxy.
- 4 How are all galaxies alike?
- (F) All galaxies are the same size.
  - (G) All galaxies are the same shape.
  - (H) All galaxies are made up of many stars.
  - (I) All galaxies are very close together in space.
- 5 Why does the sun look larger and brighter than other stars?
- (A) The sun is closer than other stars.
  - (B) The sun is hotter than other stars.
  - (C) The sun is larger than other stars.
  - (D) The sun is cooler than other stars.



**Benchmark Assessment SC.5.E.5.3****Fill in the letter of the best choice.**

- ① Look at the diagram of our solar system.



Which planet is the arrow pointing to?

- Ⓐ Earth
  - Ⓑ Jupiter
  - Ⓒ Neptune
  - Ⓓ Saturn
- ② Which planet has the shortest path around the sun?
- Ⓕ Earth
  - Ⓖ Mercury
  - Ⓗ Neptune
  - Ⓘ Venus
- ③ Which planet has a rocky surface?
- Ⓐ Jupiter
  - Ⓑ Mars
  - Ⓒ Neptune
  - Ⓓ Saturn

- ④ Which planet is a gas giant?

- Ⓕ Mars
- Ⓖ Mercury
- Ⓗ Saturn
- Ⓘ Venus

- ⑤ Look at this picture of Jupiter.



Which is **not** true?

- Ⓐ The planet has more moons than Earth.
  - Ⓑ The planet is many times larger than Earth.
  - Ⓒ The planet's surface is much like Earth's surface.
  - Ⓓ The swirl you can see is a giant storm called the Great Red Spot.
- ⑥ Why is Pluto no longer considered to be a planet?
- Ⓕ It does not orbit the sun.
  - Ⓖ It has too many moons.
  - Ⓗ It is not large enough to have cleared its orbit of debris.
  - Ⓘ It is too large to be classified with the inner and outer planets.

## Benchmark Assessment SC.4.E.5.4

Fill in the letter of the best choice.

- 1 Which causes the cycle of day and night?
  - (A) Earth's rotation on its axis
  - (B) Earth's revolution around the sun
  - (C) the moon's orbit around Earth
  - (D) the movement of the sun across the sky
- 2 What are two ways the moon's appearance changes over time?
  - (F) It changes speed and brightness in the sky.
  - (G) It changes orbit and brightness in the sky.
  - (H) It changes speed and position in the sky.
  - (I) It changes phase and position in the sky.
- 3 Why does Polaris appear to stay in about the same place at night, while other stars appear to move?
  - (A) Polaris is directly above the North Pole.
  - (B) Polaris is much closer to Earth than the other stars we can see.
  - (C) Other stars change positions in space, but Polaris does not.
  - (D) Polaris is much brighter than the other stars we can see.
- 4 It is noon where you are. Which statement describes the time of day on the opposite side of Earth?
  - (F) It is sunrise.
  - (G) It is sunset.
  - (H) It is day.
  - (I) It is night.
- 5 What observation supports the claim that Earth rotates?
  - (A) The sun appears to move in the sky.
  - (B) The moon moves around Earth.
  - (C) The moon seems to change shape.
  - (D) The sun provides energy to Earth.
- 6 What causes the cycle of the seasons?
  - (F) the moon's orbit around Earth
  - (G) Earth's revolution around the sun
  - (H) the movement of the sun across the sky
  - (I) Earth's rotation on its axis



## Benchmark Assessment SC.4.E.6.2

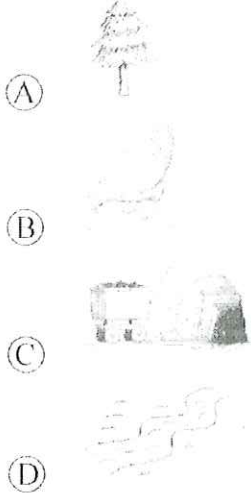
Fill in the letter of the best choice.

- ① On Earth's surface, rock breaks down into tiny pieces. The pieces settle in layers, become compacted, and stick together. Which kind of rock is formed?
- Ⓐ igneous
  - Ⓑ metamorphic
  - Ⓒ molten
  - Ⓓ sedimentary
- ② What causes rock to become metamorphic rock?
- Ⓕ heat and pressure
  - Ⓖ weathering and erosion
  - Ⓗ heating and cooling
  - Ⓘ magma and lava
- ③ Which rock forms when magma cools?
- Ⓐ igneous
  - Ⓑ metamorphic
  - Ⓒ molten
  - Ⓓ sedimentary
- ④ A mineral can be scratched by an iron nail. What can you conclude?
- Ⓕ The mineral's hardness is less than iron.
  - Ⓖ The mineral's hardness is greater than iron.
  - Ⓗ The mineral's luster is less than iron.
  - Ⓘ The mineral's luster is greater than iron.
- ⑤ Josh rubs a mineral across a tile, and observes the color of the residue left behind. What property is Josh testing?
- Ⓐ cleavage
  - Ⓑ sedimentary
  - Ⓒ luster
  - Ⓓ streak

## Benchmark Assessment SC.4.E.6.3

Fill in the letter of the best choice.

- 1 Which is a nonrenewable resource?



- 2 Which type of resources cannot be easily or quickly replaced once they are used?

- (F) new
- (G) reusable
- (H) renewable
- (I) nonrenewable

- 3 Which is a renewable resource used to produce electricity?

- (A) coal
- (B) wind
- (C) gasoline
- (D) natural gas

- 4 Why are minerals considered nonrenewable resources?

- (F) They cannot be replaced.
- (G) They can be replaced but not quickly.
- (H) They cause pollution when used to make electricity.
- (I) They take millions of years to form deep inside Earth.

- 5 Look at these objects. Which statement about them is correct?



- (A) It is a renewable resource because it can eventually be replaced.
- (B) It is a renewable resource because it can be replaced within a human lifetime.
- (C) It is a nonrenewable resource because it can eventually be replaced.
- (D) It is a nonrenewable resource because it can be replaced within a human lifetime.



## Benchmark Assessment SC.4.E.6.4

Fill in the letter of the best choice.

- 1 Which process occurs when soil from a farmer's field blows away in a strong wind?
- (A) erosion
  - (B) gravity
  - (C) ice wedging
  - (D) weathering
- 2 Which process occurs when a flowing river moves sand towards the sea?
- (F) erosion
  - (G) gravity
  - (H) ice wedging
  - (I) weathering
- 3 What can result from tree roots growing into the ground?
- (A) erosion
  - (B) gravity
  - (C) ice wedging
  - (D) weathering
- 4 Which is a cause of both weathering and erosion?
- (F) animals
  - (G) sand
  - (H) plants
  - (I) water
- 5 How can a glacier cause erosion?
- (A) by washing sand from the shore
  - (B) by picking up rock and soil as they slowly move along
  - (C) by pulling rocks down a hill
  - (D) by carving great canyons in Earth's crust

## Benchmark Assessment SC.5.E.7.1

Fill in the letter of the best choice.

- 1 In which part of the water cycle does liquid water turn into water vapor?

(A) circulation  
(B) condensation  
(C) evaporation  
(D) precipitation

- 2 In which part of the water cycle does water return to Earth from the atmosphere?

(F) circulation  
(G) condensation  
(H) evaporation  
(I) precipitation

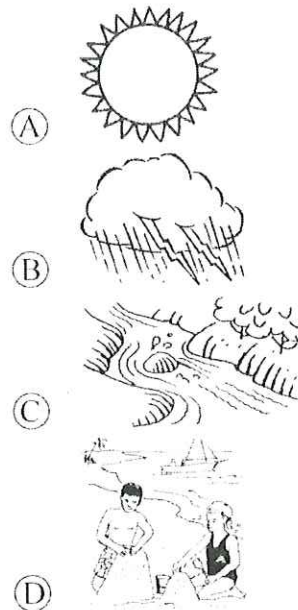
- 3 In which part of the water cycle do clouds form?

(A) circulation  
(B) condensation  
(C) evaporation  
(D) precipitation

- 4 Where does most of the water that evaporates on Earth come from?

(F) creeks  
(G) lakes  
(H) oceans  
(I) ponds

- 5 Which shows the source of energy for the water cycle?

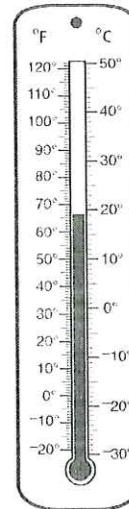


## Benchmark Assessment SC.5.E.7.3

Fill in the letter of the best choice.

- 1 Margie is moving from a coastal town to an inland city at the same latitude. What should she expect the winters to be like in her new city?
- (A) colder than the weather in her old location
  - (B) warmer than the weather in her old location
  - (C) rainier than the weather in her old location
  - (D) about the same as the weather in her old location
- 2 Which tool do you use to measure humidity?
- (F) anemometer
  - (G) barometer
  - (H) hygrometer
  - (I) thermometer
- 3 What does high air pressure usually indicate?
- (A) cloudy weather
  - (B) humid weather
  - (C) stormy weather
  - (D) sunny weather

- 4 Look at the thermometer below.



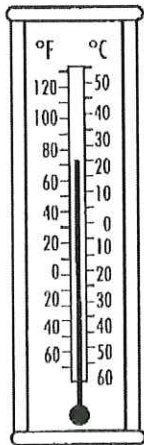
What type of precipitation is **most likely** at this temperature?

- (F) hail
  - (G) rain
  - (H) sleet
  - (I) snow
- 5 Zack and Emily are hiking up a mountain. Which statement describes how the weather will **most likely** change as they climb?
- (A) It will become rainier.
  - (B) It will become warmer.
  - (C) It will become cooler.
  - (D) It will become stormier.

## Benchmark Assessment SC.5.P.8.1

Fill in the letter of the best choice.

- ① Study this thermometer.



Which properties does water have at this temperature?

- Ⓐ It would fill its container.
- Ⓑ It would hold its own shape.
- Ⓒ It would not have a shape.
- Ⓓ It would take the shape of its container.

- ② Which is a property of solids?

- Ⓕ takes the shape of its container
- Ⓖ keeps its shape
- Ⓗ fills its container
- Ⓘ can be poured

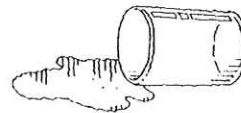
- ③ This chart shows the state of four substances.

Substance	State at Room Temperature
A	solid
B	gas
C	liquid
D	solid

Which substance is water?

- Ⓐ A
- Ⓑ B
- Ⓒ C
- Ⓓ D

- ④ Which characteristic of a liquid does the illustration show?



- Ⓕ It is wet.
- Ⓖ It has a fixed volume.
- Ⓗ It does not have a definite shape.
- Ⓘ It has a fixed volume and a fixed shape.



## Benchmark Assessment SC.5.P.8.3

Fill in the letter of the best choice.

- 1 Which mixture would be **best** separated using a magnet?
- (A) iron filings and iron nails
  - (B) iron nails and sawdust
  - (C) sawdust and wood chips
  - (D) salt and soil
- 2 Which mixture would be **best** separated using evaporation?
- (F) sawdust and wood chips
  - (G) iron filings and iron nails
  - (H) salt and soil
  - (I) sugar and salt
- 3 Which mixture would be **best** separated using a filter?
- (A) sugar water
  - (B) saltwater
  - (C) sand in water
  - (D) honey in water
- 4 Jed wants to dissolve oil in water. Which statement is **true**?
- (F) He should stir the water to help the oil dissolve.
  - (G) He should raise the temperature of the water to help the oil dissolve.
  - (H) The oil will not dissolve, because water must dissolve in oil.
  - (I) The oil will not dissolve, because oil cannot dissolve in water.

- 5 Max has made a mixture of different sizes of rocks for a landscaping project. Data about the rocks are in the table below.

Rock Type	Diameter of Rock Particles (cm)
pea gravel	0.5
pond pebbles	1.0
river rock	2.5

Max decides that the river rocks are too large and wants to separate them out. Which is the best option?

- (A) Sift them out with a screen with 1-cm openings.
- (B) Sift them out with a screen with 2-cm openings.
- (C) Sift them out with a screen with 3-cm openings.
- (D) Sift them out with a screen with 4-cm openings.

## Benchmark Assessment SC.5.P.9.1

Fill in the letter of the best choice.

- 1 Which process involves a decrease in temperature?

(A) evaporation  
(B) boiling  
(C) condensation  
(D) melting

- 2 Look at the drawing below.



Which prediction is **most likely**?

- (F) The ice will melt, and condensation will form on outside of the glass.  
(G) The ice will evaporate before it finishes melting.  
(H) The ice will boil, and water will spill on the outside of the glass.  
(I) The ice will condense and stick to the outside of the glass.

- 3 Which is correct?

- (A) Only water can change states.  
(B) The solid form of water is called water vapor.  
(C) At the right temperatures, any kind of matter can change states.  
(D) A change of state is a chemical change because a new kind of matter is formed.

- 4 You place a piece of bread in the toaster. A minute later, the toast pops up. What evidence tells you an increase in temperature caused a chemical change?

- (F) The toast changed size.  
(G) The toast changed shape.  
(H) The toast changed state.  
(I) The toast changed color.

## Benchmark Assessment SC.5.P.10.1

Fill in the letter of the best choice.

1 What form of energy is in a battery?

- (A) light energy
- (B) kinetic energy
- (C) chemical energy
- (D) electrical energy

2 Which has the least amount of potential energy?

- (F) a ball at the top of a hill
- (G) a roller coaster going down a hill
- (H) a child at the top of a slide
- (I) a car parked in a parking lot

3 Which are forms of kinetic energy?

- (A) light, sound, chemical
- (B) electrical, chemical, sound
- (C) sound, potential, thermal
- (D) light, thermal, sound

4 What form of energy can be absorbed, reflected or bent by different materials?

- (F) sound
- (G) electrical
- (H) light
- (I) mechanical

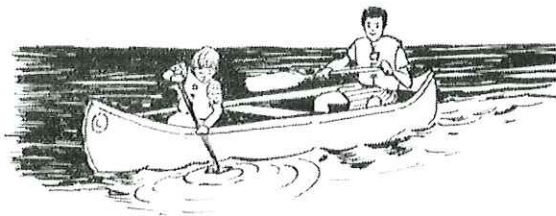
5 What forms of energy does this object give off?



- (A) light energy and thermal energy
- (B) light energy and sound energy
- (C) light energy and electrical energy
- (D) light energy and chemical energy

**Benchmark Assessment SC.5.P.10.2****Fill in the letter of the best choice.**

- 1 Which is **not** an example of energy causing motion?
- (A) picking up a box
  - (B) holding a box
  - (C) placing a box on a shelf
  - (D) placing a box on the floor
- 2 Which describes a change caused by the sun's energy?
- (F) A marshmallow toasts over a fire.
  - (G) Water for tea is boiled on a stove.
  - (H) Water in a rain puddle evaporates.
  - (I) A light bulb glows when the switch is turned.
- 3 Which description applies to the picture below?



- (A) Energy from the paddle and the moving water moves the canoe.
- (B) Energy from the paddle and the wind moves the canoe.
- (C) Energy from the wind and the moving water moves the canoe.
- (D) Energy from the wind and gravity moves the canoe.

- 4 Zelig used an electric fan to power four identical toy sailboats across a bowl of water. The data table shows how the distance and time for each sailboat.

Boat	Time (seconds)	Distance (inches)
F	42	24
G	34	24
H	27	24
I	31	24

Which boat traveled with the **most** kinetic energy?

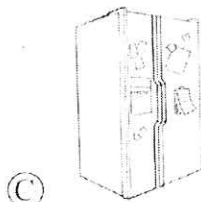
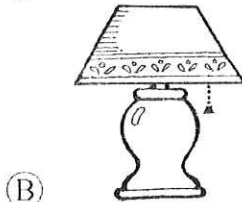
- (F) F
- (G) G
- (H) H
- (I) I



## Benchmark Assessment SC.5.P.10.4

Fill in the letter of the best choice.

- 1 Which shows a device designed to transform electrical energy into mechanical energy?



- 2 What energy transformation takes place inside a toaster?
- (F) electrical to light energy  
(G) electrical to sound energy  
(H) electrical to light and thermal energy  
(I) electrical to sound and thermal energy

- 3 Sandy built a circuit that would light a light bulb. When she connected the wire to the battery, however, the light bulb did not light. What is the most likely reason the light bulb would not light?

- (A) The circuit was not continuous.  
(B) The wire was made of copper.  
(C) The switch was closed.  
(D) The battery was not powerful enough.

- 4 What energy transformation takes place inside a oven?

- (F) electrical to light energy  
(G) electrical to sound energy  
(H) electrical to light and thermal energy  
(I) electrical to sound and thermal energy

- 5 Which is a conductor?

- (A) glass  
(B) plastic  
(C) silver  
(D) wood

## Benchmark Assessment SC.5.P.13.1

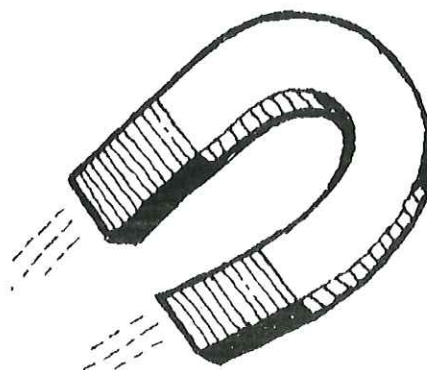
Fill in the letter of the best choice.

- 1 Which is **true** of gravity?
- (A) Gravity acts only through air, not through water or land.
  - (B) Gravity does not act on airplanes flying in the sky.
  - (C) Gravity always acts toward the center of Earth.
  - (D) Gravity does not act on objects falling through space.

- 2 Which forces can affect an object's motion without touching the object?
- (F) friction and gravity
  - (G) gravity and magnetic force
  - (H) friction and magnetic force
  - (I) gravity, friction, and magnetic force

- 3 Which describes how forces affect a soccer ball?
- (A) Forces cause it to change color and size.
  - (B) Forces cause it to change speed and direction.
  - (C) Forces cause it to change mass and position.
  - (D) Forces cause it to change location and weight.

- 4 If you held the object in the picture near paperclips containing iron, what would be the result?



- (F) The paper clips would be repelled.
  - (G) The paper clips would be attracted.
  - (H) The paper clips would not be affected.
  - (I) The paper clips would be repelled by one pole and attracted to the other.
- 5 Eli pushes a box with 1 N of force, and Judy pushes with 2 N in the opposite direction. Which describes what happens to the box?
- (A) It does not move.
  - (B) It moves toward Eli.
  - (C) It moves toward Judy.
  - (D) It moves toward Eli and then toward Judy.

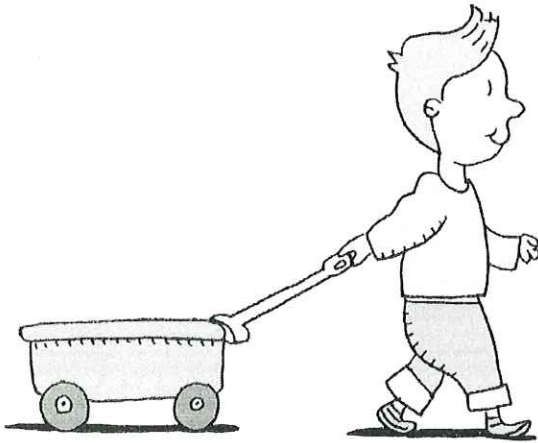
## Benchmark Assessment SC.5.P.13.2

Fill in the letter of the best choice.

- ① Which can **not** be changed by applying a force to an object?

(A) mass  
(B) direction  
(C) speed  
(D) velocity

- ② The boy pulls a wagon.



What is likely to happen if the boy adds objects to the wagon?

- (F) He will find that it is easier to pull the wagon.  
(G) He will find that it is harder to pull the wagon.  
(H) He will find that he needs less force to pull the wagon.  
(I) He will find that he needs the same amount of force to pull the wagon.

- ③ What do you need to know to find the speed of an object?

(A) mass and position  
(B) distance and time  
(C) velocity and energy  
(D) force and mass

- ④ What always changes when an object is in motion?

(F) position  
(G) speed  
(H) direction  
(I) mass

- ⑤ Dan plans to push several balls across a floor with the same amount of force. He will record data about distance each one traveled.

Ball	Mass	Distance
A	50 grams	
B	500 grams	
C	1 kilogram	
D	4 kilograms	

Which object do you predict will move the farthest?

(A) A  
(B) B  
(C) C  
(D) D

## Benchmark Assessment SC.3.L.14.1

Fill in the letter of the best choice.

- 1 Which part produces food for the plant?

(A) flowers  
(B) leaves  
(C) roots  
(D) seeds

- 2 In the picture, what is the function of the part of the plant the man is holding?



(F) to make food  
(G) to reproduce  
(H) to move nutrients and water  
(I) to hold the plant in the ground

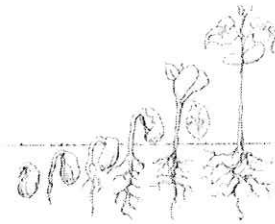
- 3 Which plant part is **not** involved in its reproduction?

(A) seed  
(B) flower  
(C) fruit  
(D) root

- 4 What do the roots **not** provide for the plant?

(F) water  
(G) food  
(H) nutrients  
(I) anchor into soil

- 5 Which part of a plant cycle of life is shown in the picture?



(A) seed growing into seedling  
(B) blossom growing into fruit  
(C) seedling growing into plant  
(D) seed growing into fruit



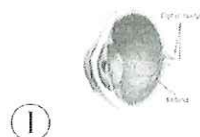
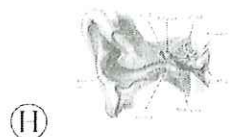
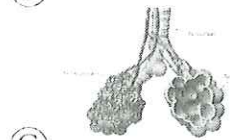
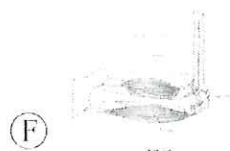
## Benchmark Assessment SC.5.L.14.1

Fill in the letter of the best choice.

1 Which does not play a role in digestion?

- (A) ovaries
- (B) pancreas
- (C) small intestine
- (D) stomach

2 Which structure sends information about vibrations to the brain?



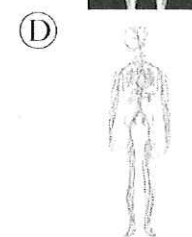
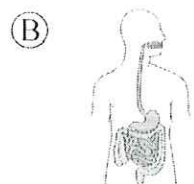
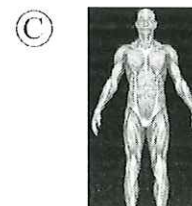
3 Which statement about the skin is **false**?

- (A) It helps prevent infection.
- (B) It helps absorb nutrients.
- (C) It helps regulate body temperature.
- (D) It helps prevent water loss.

4 Which is the correct sequence of signals in the nervous system?

- (F) eye → nerve → brain → spinal column → muscle
- (G) eye → brain → spinal column → nerve → muscle.
- (H) muscle → nerve → spinal column → brain → eye
- (I) muscle → brain → spinal column → nerve → eye

5 Human cells need oxygen and produce carbon dioxide waste. Which depicts the system that exchanges these gases between the body and the air?



## Benchmark Assessment SC.5.L.14.2

Fill in the letter of the best choice.





1 Which structures have similar functions?

- (A) gills / veins
- (B) bark / bone
- (C) antennae / tongue
- (D) feathers / fins

2 Which is **not** a correct statement about insects?

- (F) They have their skeletons on the outside of their bodies.
- (G) Their eyes may have thousands of lenses.
- (H) They absorb nutrients through their skin
- (I) They lay eggs to reproduce.

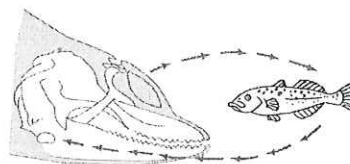
3 Which of the following organisms takes in oxygen through book lungs?

- (A) 
- (B) 
- (C) 
- (D) 

4 Which is a way digestion in some animals differs from humans?

- (F) Acids break down food.
- (G) Nutrients are absorbed through the skin.
- (H) Food is broken down by chewing.
- (I) Food is digested in the stomach.

5 Which describes the dolphin sense depicted?



- (A) The dolphin smells chemicals coming from the fish.
- (B) The dolphin hears sound waves made by movement of the fish.
- (C) The dolphin sees light reflecting off the fish.
- (D) The dolphin detects sound bouncing back from the fish.

## Benchmark Assessment SC.4.L.16.4

Fill in the letter of the best choice.





- 1 Which organism undergoes metamorphosis?

(A) ladybug  
(B) fern  
(C) eagle  
(D) humans

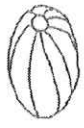



- 2 Jonah saved and planted a seed from his apple. What might he expect to see come up out of the ground first?

(F) a small green apple  
(G) a seedling apple tree  
(H) roots of an apple tree  
(I) a mature apple tree

- 3 Which is a young frog that will turn into an adult?

(A)   
(B)   
(C)   
(D) 

- 4 A moth and a ladybug undergo the same life cycle stages. Which stage comes after a moth's pupa stage?

(F)   
(G)   
(H)   
(I) 

- 5 When a caterpillar becomes a pupa, what happens inside?

(A) It hibernates.  
(B) It grows different organs and wings.  
(C) It rests and comes out just the same.  
(D) It comes out the same shape, but smaller since it couldn't eat.

## Benchmark Assessment SC.5.L.17.1

Fill in the letter of the best choice.

- 1 What is **not** an adaptation due to life cycle?
- (A) ability to alter birth time due to environment
  - (B) separate environments and food sources for different life cycle phases
  - (C) a lioness protecting its cub
  - (D) short bloom and seed reproduction cycle triggered only when it rains

- 2 The camel's hump is example of what type of adaptation?



- (F) physical
  - (G) instinct
  - (H) life cycle
  - (I) learned behavior
- 3 What physical characteristic is an adaptation for an animal that hunts?
- (A) sharp teeth and claws
  - (B) gills on a fish
  - (C) hanging upside down to sleep
  - (D) webbed feet

- 4 What adaptation does a black bear have that could help it survive in the tundra?



- (F) dark fur
  - (G) flat teeth for crushing acorns and nuts
  - (H) a thick coat
  - (I) curved claws for climbing trees
- 5 Which adaptation would help an organism survive in the intertidal zone?
- (A) dries out quickly in the sun
  - (B) suction cups
  - (C) soft body shell
  - (D) waterproof feathers



## Benchmark Assessment SC.4.L.17.3

Fill in the letter of the best choice.

- 1 The animal in the picture is an example of what consumer classification?



- (A) herbivore
- (B) predator
- (C) scavenger
- (D) prey

- 2 If a consumer eats other animals, which classification does **not** apply?

- (F) prey
- (G) omnivore
- (H) carnivore
- (I) predator

- 3 Complete the following food chain:  
algae → tadpoles → ? → hawk

- (A) minnows
- (B) bear
- (C) fish
- (D) water lilies

- 4 Which classification does not apply to this animal?



- (F) prey
- (G) carnivore
- (H) predator
- (I) omnivore

- 5 Which is **true** about food webs?

- (A) Food webs are a model consisting of multiple food chains.
- (B) Food webs are not affected by environmental changes.
- (C) Scavengers don't affect food webs because they only eat dead animals or plants.
- (D) Food webs aren't affected by a change in a single food chain.