

Name: _____



MODEL ANSWER

Date: _____

Class: _____

QUESTIONS SHEET- DO NOT ANSWER HERE

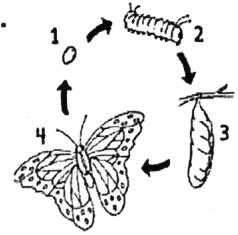
Unit 3 Review

Science Concepts

Fill in the letter of the choice that best answers the question.

6. What happens when a plant is pollinated?
- A Pollen is brought from the male part of the plant to the female part.
 - B New roots start to grow and begin absorbing water.
 - C A seed germinates and begins to sprout.
 - D A spore forms from a seed.

7. Look at the butterfly life cycle.



What stage is being shown at step 3 in the diagram?

- A adult
- B egg
- C larva
- D pupa

8. Animals have many behaviors. Some are learned and some come from instinct. Which of the following behaviors is based on instinct?
- A a chimpanzee using a tool to dig up insects
 - B bats hibernating in the winter months
 - C lion cubs imitating hunting behaviors of their mother
 - D a dog responding to its owner's commands

9. Oscar enjoys bird watching. His favorite bird is a warbler, but he can see them only during the month of September. After that, the warblers head south in search of food. What is the warbler's behavior an example of?
- A camouflage
 - B metamorphosis
 - C migration
 - D mimicry

10. Which adaptation helps the gray fox to escape from predators?

- (A) It has thick fur.
- (B) It reproduces in the spring.
- (C) It goes through hibernation.
- (D) It has the ability to climb trees.

11. Animals have body structures that help them to find food and shelter or defend themselves from predators. Look at the picture below.



What adaptation helps the cheetah compete with other animals for food?

- (A) climbing ability
- (B) a long life cycle
- (C) fur to maintain body heat
- (D) strong legs for high-speed hunting

12. Flowers come in many shapes, sizes, and colors. How is this a plant adaptation?

- (A) The different flowers help make a garden look attractive.
- (B) The different flowers help the plant get the most sunlight.
- (C) The different flower types help the plant survive in different climates.
- (D) The different flower types attract different kinds of insects to pollinate them.

13. Tanisha is making a chart about the life cycle of a pine tree. Place the stages of the tree's life cycle below in the correct sequence.

1. A seed forms inside a cone.
2. A plant grows into an adult pine tree.
3. Pollen goes from a male cone to a female cone.
4. A seed germinates and a new plant sprouts.

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

14. Austin has a female yellow and white cat that just had kittens. The father of the kittens is a black cat. The litter of kittens contains three black kittens, two yellow kittens, and one kitten that is black, yellow, and white. How can you explain these results?

- (A) There is no way of telling what the offspring of an animal will look like.
- (B) The male kittens are probably all black and the other cats are females.
- (C) Each kitten got a different mix of features from the mother and father cats.
- (D) The kittens' fur will get darker and they soon will all have black fur.

15. A scientist is studying the behavior of chipmunks. She records the information below.

Month	Average Body Temperature (°F)
January	55
April	90
June	99
October	95

Which adaptation is shown in the graph above?

- (A) camouflage
- (B) hibernation
- (C) migration
- (D) mimicry

16. Which part of a cactus allows it to survive long periods of dry weather?

- (A) It has very shallow roots.
- (B) It has large, colorful flowers.
- (C) It has thick stems to hold extra water.
- (D) It has thin, sharp needles.

17. The male snowy owl is almost completely white. It lives near the Arctic Circle, where this adaptation helps it stay hidden while hunting. What type of adaptation is this?

- (A) camouflage
- (B) hibernation
- (C) instinct
- (D) mimicry

Unit 7 Review

Science Concepts

Fill in the letter of the choice that best answers the question.

6. George cannot decide if he needs his umbrella today. He looks out the window and observes the clouds. Which kind of cloud would make George infer that a thunderstorm is in the forecast?

- (A) cirrus
- (B) stratus
- (C) cumulus
- (D) cumulonimbus

7. Rain falls on a cool morning. By late morning, the temperature increases, and the sun warms a puddle of water. Through evaporation, what does the puddle of water change to?

- (A) gas
- (B) ice
- (C) rain
- (D) snow

8. Water is important to the survival of plants, animals, and people. Why is salt water important to people?

- (A) It provides air for people.
- (B) It provides homes for people.
- (C) It provides drinking water for people.
- (D) It provides a habitat for some animals that people eat.

9. Ms. Greyson is a weather forecaster. On the news, she tells people there is a thunderstorm in the forecast. How can people prepare for this severe weather?

- (A) stay inside a building in a safe room away from windows
- (B) make sure indoor heating works
- (C) make sure their snow blowers work
- (D) use sheets to cover plants that might freeze

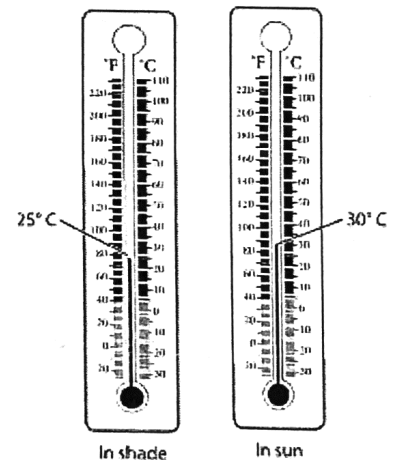
10. Antwan wants to record weather data at his house. He wants to measure the amount of precipitation and the wind speed. Which instruments should he use?

- (A) a thermometer and a rain gauge
- (B) a rain gauge and a wind meter
- (C) a wind meter and a wind vane
- (D) a thermometer and a wind vane

11. In the morning, it rained, leaving puddles in Camilla's driveway. An hour later, she noticed that the puddles that were in a sunny part of the driveway had dried up. The puddles in a shady part of the driveway were still there. The thermometers below show the temperatures in the two areas.

Which conclusion can Camilla draw from her observations?

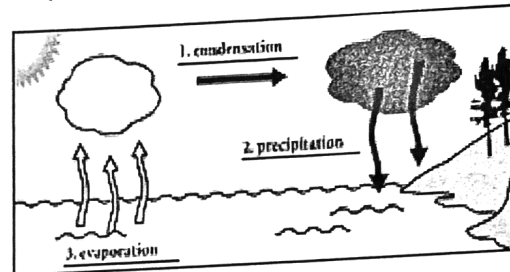
- (A) Puddles make temperatures fall.
- (B) Evaporation makes temperatures rise.
- (C) Heat makes water condense more quickly.
- (D) Heat makes water evaporate more quickly.



12. Even though water makes up 75 percent of Earth, why is it so important to conserve water?

- A The water we can drink makes up a small fraction of the water on Earth.
- B The water where we gather food makes up a small fraction of the water on Earth.
- C The water we swim in makes up a small fraction of the water on Earth.
- D The water that is part of the water cycle makes up a small fraction of the water on Earth.

13. Mr. Rose's class just finished learning about the water cycle. The students understand the roles of evaporation and precipitation in the picture below. They need to review condensation.

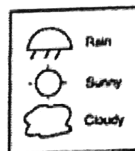


How would you describe the role of condensation in the picture above?

- A The sun is heating the cool water.
- B The rain is going into the groundwater.
- C The air cools water vapor in the atmosphere.
- D The rain moves from the land to air and underground.

14. The following calendar shows the weather in the month of May.

MAY						
Sun.	Mon.	Tues.	Wed.	Thurs.	Fri.	Sat.
1 ☁	2 ☁	3 ☁	4 ☁	5 ☁	6 ☁	7 ☁
8 ☁	9 ☁	10 ☁	11 ☁	12 ☁	13 ☁	14 ☁
15 ☁	16 ☁	17 ☁	18 ☁	19 ☁	20 ☁	21 ☁
22 ☁	23 ☁	24 ☁	25 ☁	26 ☁	27 ☁	28 ☁
29 ☁	30 ☁	31 ☁				



Which week in May had the most days of precipitation?

- A the first week
- B the second week
- C the third week
- D the fourth week

15. It is an afternoon in November. The thermometer reads 2 degrees Celsius. The wind meter measures the wind speed at 5 kilometers per hour. The clouds are thin and wispy. What is the weather outside?

- A cold with high winds and sunny
- B cold with little wind and sunny
- C cold with little wind and snowy
- D cold with high winds and rainy

Unit 10 Review

Science Concepts

Fill in the letter of the choice that best answers the question.

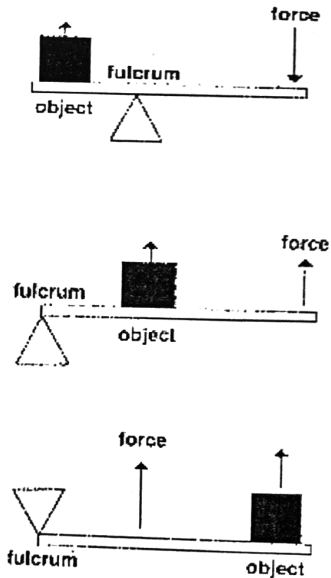
4. Jorge wants to load his piano onto a moving truck. He thinks that using a simple machine to spread the work over a longer distance would be a good idea. Which simple machine would be the best option?

- (A) screw
- (B) wedge
- (C) inclined plane
- (D) wheel-and-axle

5. Which of the following simple machines would be best for lifting cleaning supplies straight up the side of a tall building?

- (A) lever
- (B) pulley
- (C) inclined plane
- (D) wheel-and-axle

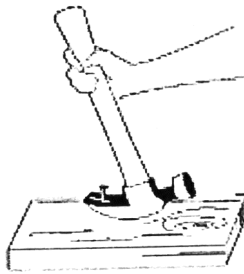
6. Taran wants to lift an object using a simple machine. The pictures show three possible ways he could set up the simple machine.



Which picture or pictures show how Taran can use the simple machine so it would reduce the effort needed to lift the object?

- (A) the top picture
- (B) the middle picture
- (C) the bottom picture
- (D) the top and middle pictures

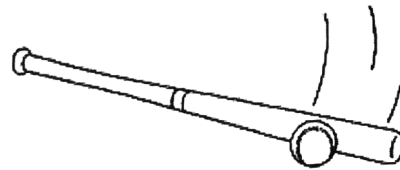
7. The picture shows one way a simple machine can be used.



What provides the force needed to pull the nail out of the board?

- (A) the hammer's head
- (B) the hammer's handle
- (C) the board's flat surface
- (D) the person's arm and hand

13. The picture shows a common example of a simple machine.



Tina uses the bat to hit the ball. What acts as the fulcrum?

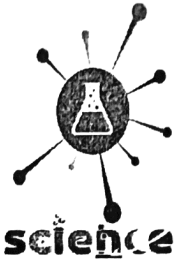
- (A) the ball
- (B) the bat handle
- (C) Tina's hands
- (D) the thick part of the bat

9. A 3 m ramp and a 5 m ramp are both used to wheel boxes of vegetables into a restaurant. Both ramps have one end on the ground and one end on the top step of the restaurant. Which statement **best** compares the ramps?

- (A) It takes less effort to wheel boxes up the 5 m ramp, but the distance is greater.
- (B) It takes less effort to wheel boxes up the 3 m ramp, but the distance is shorter.
- (C) It takes more effort to wheel boxes up the 5 m ramp, but the distance is shorter.
- (D) It takes more effort to wheel boxes up the 3 m ramp, but the distance is greater.

10. What is one advantage of a wheel-and-axle?

- (A) You can lift a heavy load straight up.
- (B) You can turn a wheel without touching it.
- (C) You can use it to cut into a hard substance.
- (D) You can use less force to push or pull a load over a greater distance.



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Unit 3 Review**Vocabulary Review**

Use the terms in the box to complete the sentences.

adaptation
behavior
germinate
life cycle
metamorphosis

1. A frog develops front and back legs during

Metamorphosis

2. A bird building a nest is an example of a(n)

behavior.

3. Before a new plant can grow, the seed must

germinate.4. Snakes lay eggs as part of their life cycle.5. The quill of a porcupine is a structural adaptation

Fill in the letter of the choice that best answers the question.

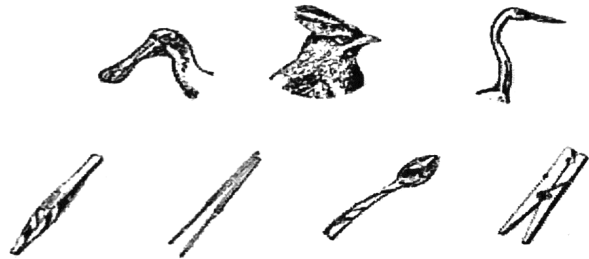
6. A B C D12. A B C D7. A B C D13. A B C D8. A B C D14. A B C D9. A B C D15. A B C D10. A B C D16. A B C D11. A B C D17. A B C D

Write the answers to these questions.

18. Matt is investigating the life cycle of plants. He wants to see if squash seeds germinate and grow faster than bean seeds. Design an experiment he can do to find out. Identify the controls, the variable, and the hypothesis. Then describe how you would display the results.

~~_____~~
~~_____~~
~~_____~~
~~_____~~
~~_____~~
~~_____~~

19. Katerina is doing a project on adaptations in birds for the science fair. Explain how she could use the materials shown here as models to show how different birds are adapted to eating different foods.



She could use these different tools to make different types of movements like (Scooping - piercing - pinching)

Unit 7 Review

Vocabulary Review

Use the terms in the box to complete the sentences.

atmosphere
condensation
temperature
water cycle
weather

1. Sunny, cloudy, and windy are examples of different types of weather.
2. A drop of water moves around Earth from the land, to the air, to the sea, and even underground as part of the water cycle.
3. When weather forecasters talk about the air around Earth, they are referring to the atmosphere.
4. On a very hot summer day, you can read the thermometer to find out the Temperature.
5. Water vapor changes into rain in the process of Condensation.

Science Concepts

Fill in the letter of the choice that best answers the question.

6. (A) (B) (C) (D)

7. (A) (B) (C) (D)

8. (A) (B) (C) (D)

9. (A) (B) (C) (D)

10. (A) (B) (C) (D)

11. (A) (B) (C) (D)

12. (A) (B) (C) (D)

13. (A) (B) (C) (D)

14. (A) (B) (C) (D)

15. (A) (B) (C) (D)

Write the answers to these questions.

16. You can measure the temperature of the air with a thermometer. Describe three other types of weather measurements you could make and how you could measure them.

- Rain gauge: To measure how much rain has fallen.
- Wind vane: To know the wind direction.
- Wind meter: To measure the wind speed.

17. Below is the beginning of a five-day forecast.

Our Weather				
Monday	Tuesday	Wednesday	Thursday	Friday

Below the table is a drawing of a desk with a pair of scissors, two markers, and two sheets of paper, suggesting a craft or drawing activity.

You know that cold weather is coming after Tuesday. Complete the forecast for Wednesday. Explain why you predicted the weather that you did.

- Wednesday will be cloudy with some snow.
- I made this prediction because if Tuesday is rainy and cold, on Wednesday the rain will turn to snow.

Unit 10 Review

Vocabulary Review

Use the terms in the box to complete the sentences.

fulcrum
inclined plane
Work

1. When you push a heavy box up a ramp, you are using a(n)

Inclined plane

The object that supports a lever is

2. a(n) Fulcrum.

3. When you use force to move an object, you are doing Work.

Science Concepts

Fill in the letter of the choice that best answers the question.

4. (A) (B) (C) (D)

8. (A) (B) (C) (D)

5. (A) (B) (C) (D)

9. (A) (B) (C) (D)

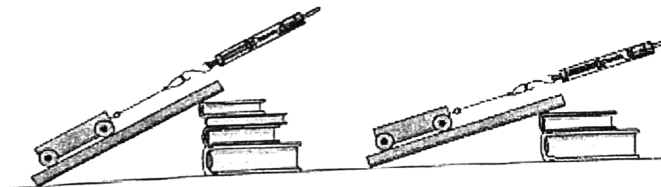
6. (A) (B) (C) (D)

10. (A) (B) (C) (D)

7. (A) (B) (C) (D)

Write the answers to these questions.

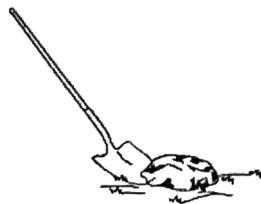
11. Jacob did an experiment. He set up two ramps, shown below.



Predict what Jacob will find when he measures the force needed to pull the toy up each ramp.

He will need more force to pull the toy in the first picture.

12. i. The tool shown in the picture is a compound machine.



Identify the simple machines, and explain how each one is used to make digging easier.

- The Shovel is made up of a wedge (the base) and a lever (the handle).

- The wedge make it easy to dig into the ground. The lever makes it easy to lift the rock.