

Student Name: _____

Pretest

Grade 3 • Science



Student Test Booklet

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Directions:

Today you will be taking a test about science topics. It will help your teacher determine what you already know about these topics. Three different types of questions appear on this test—multiple choice, short answer, and extended response.

When you take this test, remember these important things:

1. Read each question carefully. Think about what is being asked. Look carefully at illustrations, graphs, or diagrams. They provide important information for the questions.
2. When questions ask you to write an answer, use a pencil. Write neatly and clearly in the space provided in the Answer Document. Do not write any answers in the Student Test Booklet as they will not be counted toward your score.
3. Multiple-choice questions are worth one point. Short-answer questions are worth two points. Extended-response questions are worth four points.
4. For multiple-choice questions, completely shade in the circle next to your choice in the Answer Document. Shade only one answer choice for each question. If you change an answer, erase it completely.
5. If you are stuck on a question, go on to the next question. Return to that question after answering the remaining questions.
6. Check over your work when you are finished.

Science

1. Juan has a collection of rocks and wants to sort them into categories.

Which would not be helpful in categorizing the rocks?

- A. color
- B. texture
- C. temperature
- D. patterns

2. Which of the following is a renewable source of energy?

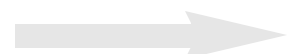
- A. water
- B. petroleum
- C. soil
- D. natural gas

3. Some natural resources are limited and need to be conserved.

In your Answer Document, identify one natural resource that is limited and explain one way that it can be conserved. (2 points)

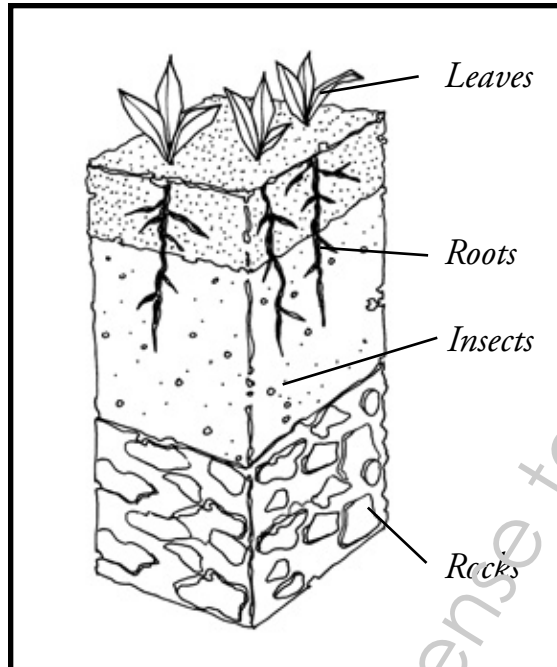
4. Where would you be likely to find silt?
- A. a desert
 - B. a forest
 - C. a river bank
 - D. a mountain top
5. Which type of soil feels slippery when wet and forms a lump when you squeeze it?
- A. silt
 - B. clay
 - C. loam
 - D. humus

You must purchase a license to use this material.



Science

6. The diagram below shows layers of soil.



Which is a nonliving thing found in soil?

- A. leaves
- B. roots
- C. insects
- D. rocks

7. Body coverings help animals survive in many ways.

Which is NOT true about the body covering of any organism?

- A. It is colored to fool predators.
- B. It is colored to attract predators.
- C. It makes hunting the organism harder.
- D. It protects the organism from the cold.

8. Birds have different body structures so they can eat different types of food. For example, some birds eat insects found under the bark of dead or living trees.

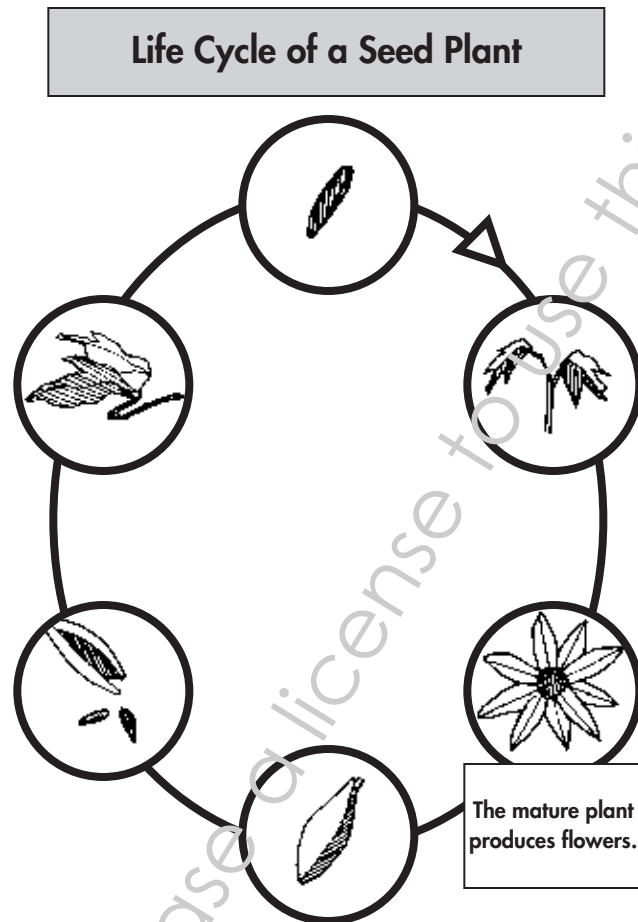
What would these birds probably have?

- A. sharp claws
- B. webbed feet
- C. long pointed beaks
- D. the ability to hibernate

9. Which part of a plant converts the sun's energy to make food?

- A. root
- B. stem
- C. flower
- D. leaf

10. The diagram below shows the life cycle of a seed plant.



Which statement describes what happens after the mature plant produces flowers?

- A. The seeds produce bulbs.
- B. The flowers become spores.
- C. The seeds become dormant.
- D. The flowers produce seeds.

Science

11. The diagram below shows a leaf from a maple tree.



What will be a characteristic of leaves of another maple tree?

- A. They will be larger.
 - B. They will look the same.
 - C. They will not look the same.
 - D. They may or may not look the same.
12. Matter has mass and takes up space. Which is an example of matter?
- A. milk in a glass
 - B. heat from a fire
 - C. light from a candle
 - D. the sound of a violin

13. Matter can be found in three different states.

In your Answer Document, identify two states of matter and describe one observable property of each. (4 points)

14. You can measure the volume of a liquid by pouring the liquid into a measuring device.

What is volume a measure of?

- A. the mass of an object
- B. the temperature of an object
- C. the gravitational pull on an object
- D. the amount of space an object takes up

15. Which of the following best describes the ability to cause motion or create change?

- A. energy
- B. matter
- C. force
- D. gravity

Science

16. A light bulb is lit by what type of energy?
- A. chemical
 - B. magnetic
 - C. electrical
 - D. mechanical
17. In your Answer Document, identify one form of energy that the sun provides. Explain how that energy is used. (2 points)
18. Which is NOT an example of energy creating change?
- A. electricity turning the blade of a fan
 - B. sunlight causing plants to grow
 - C. a magnet attracting metal
 - D. mixing salt in water

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Pretest

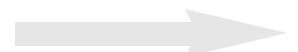
Grade 3 • Science



Answer Document

Science

1. Ⓐ Ⓑ Ⓒ Ⓓ
2. Ⓐ Ⓑ Ⓒ Ⓓ
3. Write your response to question 3 in the space below.



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

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

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

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

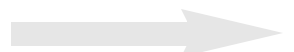
8. (A) (B) (C) (D)

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

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

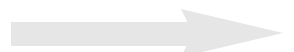
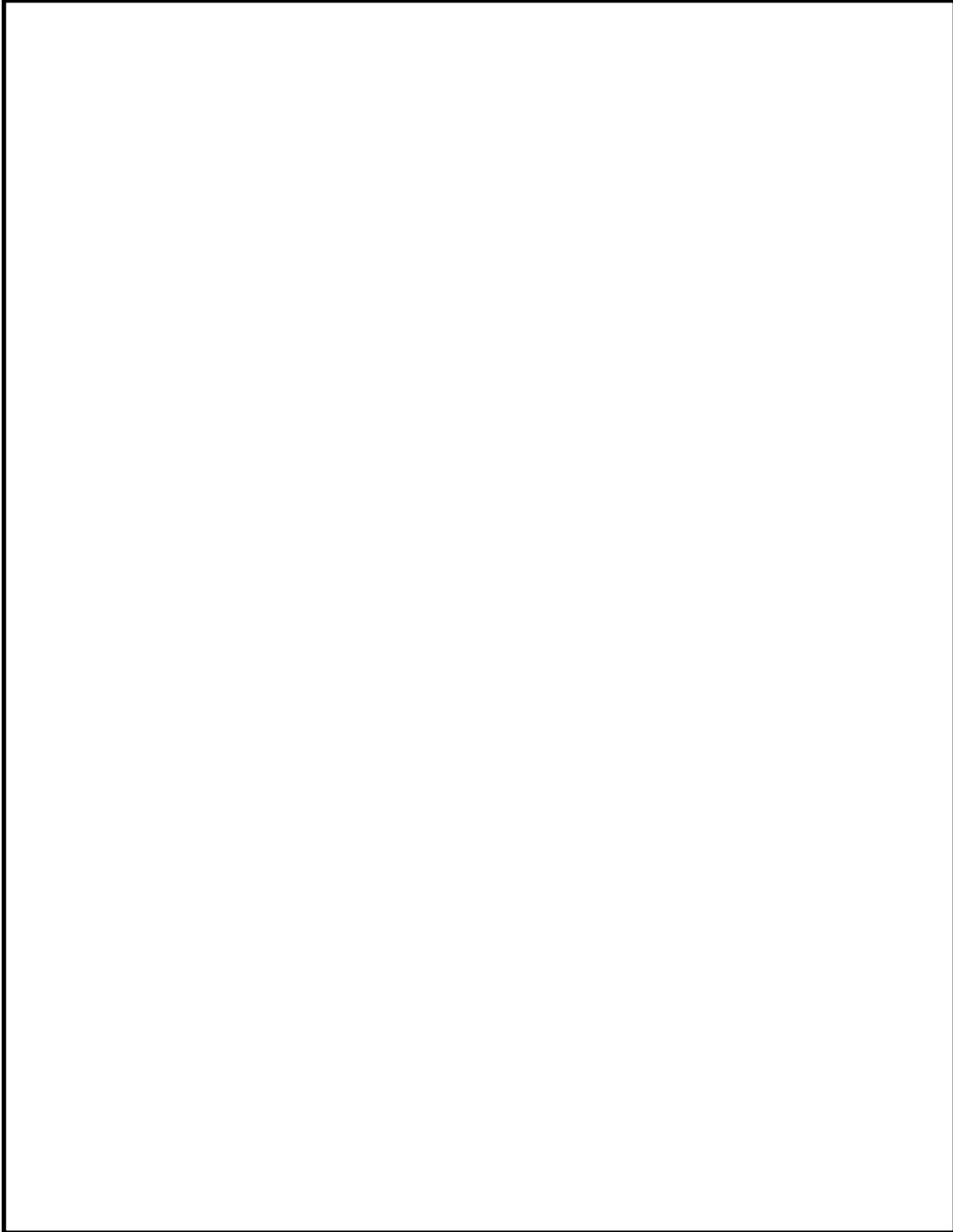
11. (A) (B) (C) (D)

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



Science

13. Write your response to question 13 in the space below.



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

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

16. (A) (B) (C) (D)

17. Write your response to question 17 in the space below.

18. (A) (B) (C) (D)



Pretest

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Answer Key and
Content Statements Covered



Question 1 • Grade 3: Earth and Space Science
Multiple Choice

Content Statement: Earth's nonliving resources have specific properties.

Correct Response: C. temperature

Question 2 • Grade 3: Earth and Space Science
Multiple Choice

Content Statement: Earth's resources can be used for energy.

Correct Response: A. water

Question 3 • Grade 3: Earth and Space Science
Short Answer

Content Statement: Some of Earth's resources are limited.

Scoring Guidelines

Points	Student Response
2 pts	The answer correctly describes one limited natural resource and explains one way that it can be conserved. Exemplar Response Oil is a limited resource. Gasoline is made from oil. We can conserve gasoline, and thus oil, by driving cars that require less fuel.
1 pt	The answer correctly identifies a limited natural resource, but does not explain a way that it can be conserved -OR- incorrectly identifies a natural resource that is renewable and explains how it can be conserved.
0 pts	A limited resource is not identified; left blank or said, "I don't know."



Question 4 • Grade 3: Earth and Space Science
Multiple Choice

Content Statement: Earth's nonliving resources have specific properties.

Correct Response: C. a river bank

Question 5 • Grade 3: Earth and Space Science
Multiple Choice

Content Statement: Earth's nonliving resources have specific properties.

Correct Response: B. clay

Question 6 • Grade 3: Earth and Space Science
Multiple Choice

Content Statement: Earth's nonliving resources have specific properties.

Correct Response: D. rocks



Question 7 • Grade 3: Life Science
Multiple Choice

Content Statement: Individuals of the same kind differ in their traits and sometimes the differences give individuals an advantage in surviving and reproducing.

Correct Response: B. It is colored to attract predators.

Question 8 • Grade 3: Life Science
Multiple Choice

Content Statement: Individuals of the same kind differ in their traits and sometimes the differences give individuals an advantage in surviving and reproducing.

Correct Response: C. long pointed beaks

Question 9 • Grade 3: Life Science
Multiple Choice

Content Statement: Individuals of the same kind differ in their traits and sometimes the differences give individuals an advantage in surviving and reproducing.

Correct Response: D. leaf



Question 10 • Grade 3: Life Science
Multiple Choice

Content Statement: Plants and animals have life cycles that are part of their adaptations for survival in their natural environments.

Correct Response: D. The flowers produce seeds.

Question 11 • Grade 3: Life Science
Multiple Choice

Content Statement: Offspring resemble their parents and each other.

Correct Response: B. They will look the same.

Question 12 • Grade 3: Physical Science
Multiple Choice

Content Statement: All objects and substances in the natural world are composed of matter.

Correct Response: A. milk in a glass



Question 13 • Grade 3: Physical Science
Extended Response

Content Statement: Matter exists in different states, each of which has different properties.

Scoring Guidelines

Points	Student Response
4 pts	<p>The student identifies two states of matter—liquid, solid, or gas—and describes one observable property of each.</p> <p>Exemplar Response</p> <ul style="list-style-type: none">• Matter can be in solid form. Matter that is solid has a certain shape. It does not change shape unless something forces it to change.• Matter can be in liquid form. It does not have a certain shape. It flows to take the shape of the container it is in. <p>Matter in gas form is also a correct response.</p>
3 pts	<p>The student chooses 2 correct states of matter but only identifies one correct observable property.</p>
2 pts	<p>The student chooses only one correct state of matter and correctly describes an observable property.</p>
1 pt	<p>Student chooses only one state of matter and incorrectly describes an observable property.</p>
0 pts	<p>Answer shows a complete lack of understanding; leaves blank or states, "I don't know."</p>



Question 14 • Grade 3: Physical Science
Multiple Choice

Content Statement: All objects and substances in the natural world are composed of matter.

Correct Response: D. the amount of space an object takes up

Question 15 • Grade 3: Physical Science
Multiple Choice

Content Statement: Heat, electricity, light, sound and magnetism are forms of energy.

Correct Response: A. energy

Question 16 • Grade 3: Physical Science
Multiple Choice

Content Statement: Heat, electricity, light, sound and magnetism are forms of energy.

Correct Response: C. electrical



Question 17 • Grade 3: Physical Sciences
Short Answer

Content Statement: Heat, electricity, light, sound and magnetism are forms of energy.

Scoring Guidelines

Points	Student Response
2 pts	The answer correctly describes light or heat energy and explains how the energy is used. Exemplar Response <ul style="list-style-type: none">• The sun provides us with light energy. Plants use light to make food in order to survive -OR- we use light in order to see.• Plants provide us with heat energy. Heat keeps Earth warm and allows living things to grow and survive.
1 pt	The answer correctly describes one form of energy, but does not explain how the energy is used.
0 pts	Neither correctly identifies or explains; leaves blank or states, "I don't know."

Question 18 • Grade 3: Physical Sciences
Multiple Choice

Content Statement: Heat, electricity, light, sound and magnetism are forms of energy.

Correct Response: D. mixing salt in water



Answer Key—Grade 3 Pretest

Multiple choice answers are 1 point

1. (A) (B) **(C)** (D)
2. **(A)** (B) (C) (D)
3. Short Answer (2 points)
4. (A) (B) **(C)** (D)
5. (A) **(B)** (C) (D)
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. Extended Response (4 points)
14. (A) (B) (C) **(D)**
15. **(A)** (B) (C) (D)
16. (A) (B) **(C)** (D)
17. Short Answer (2 points)
18. (A) (B) (C) **(D)**



Student Record—Grade 3 Pretest

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Limited = 0-6; Basic = 7-11; Proficient = 12-15; Accelerated = 16-19; Advanced = 20-23
Multiple Choice = 1 point; Short Answer = 2 points; Extended Response = 4 points