

Student Name: _____

Posttest

Grade 3 • Science



Student Test Booklet

FOCUScurriculum

Curriculum materials for **your** content standards

101 Manor Drive, Hudson, OH 44236

866-315-7880 • www.focuscurriculum.com

Published by FOCUScurriculum

101 Manor Drive

Hudson, OH 44236

866-315-7880

www.focuscurriculum.com

Copyright © 2012 FOCUScurriculum

Order Number: OHSC12-POST3

Created by Kent Publishing Services, Inc.

Designed by Signature Design Group, Inc.

No part of this publication may be reproduced without purchasing a license from the publisher.

To purchase a license to reproduce this publication, contact FOCUScurriculum. The publisher

takes no responsibility for the use of any of the materials or methods described in this publica-

tion, nor for the products thereof

Directions:

Today you will be taking a test about science topics. It will help your teacher determine what you have learned 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. Jamal has put several similar rocks in a group. All of the rocks feel rough.

What has Jamal used to classify these rocks?

- A. size
 - B. color
 - C. texture
 - D. patterns
2. Which of the following is a non-renewable source of energy?
- A. water
 - B. petroleum
 - C. light
 - D. air
3. Some natural resources are renewable, however they still need to be protected for us to use.

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

4. Which type of soil has a lot of air trapped between the particles?
- A. silt
 - B. clay
 - C. loam
 - D. sand
5. Where would you likely find soil with a lot of humus in it?
- A. a beach
 - B. a forest
 - C. a river bed
 - D. a mountain top

Science

6. Which of the following is an example of a non-living resource?
- A. rock
 - B. cattle
 - C. oak tree
 - D. dandelion
7. Which physical structure would best help a rabbit hide from a fox during a winter in Ohio?
- A. strong hind legs
 - B. sharp eyesight
 - C. claws for digging
 - D. white fur

8. Hawks are able to spot prey on the ground while flying high above.

What are a hawk's offspring likely to have?

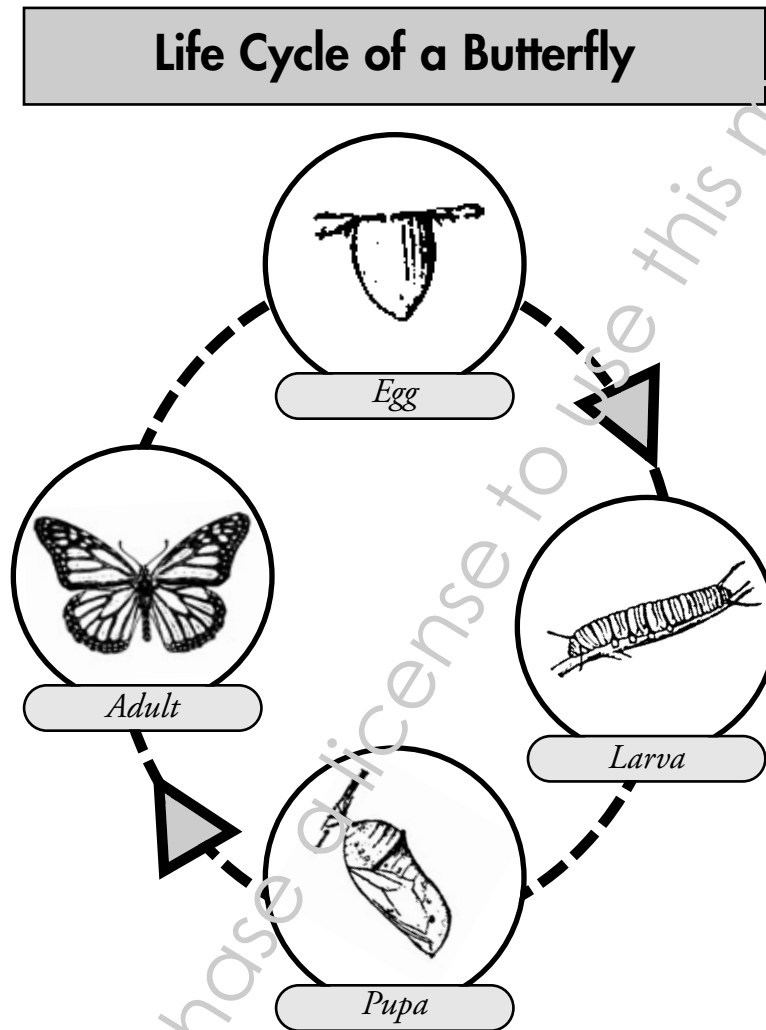
- A. small claws
- B. sharp eyesight
- C. broad beaks
- D. thick feathers

9. Which part of a plant carries water and nutrients to the rest of the plant structures?

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

You must purchase a license to use this material.

10. The diagram below shows the life cycle of a butterfly.

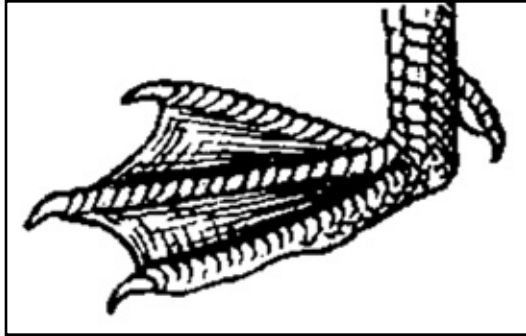


Which statement describes what change occurs after the pupa forms?

- A. The adult forms.
- B. The larva dies.
- C. The egg forms.
- D. The pupa dies.

Science

11. The diagram below shows the webbed foot of a duck.



What will be a characteristic of the feet of other ducks?

- A. They will be larger.
 - B. They will look similar.
 - C. They will not look similar.
 - D. They may or may not look similar.
12. Matter has mass and takes up space. Which is NOT an example of matter?
- A. ice cubes in a drink
 - B. air in a balloon
 - C. water in a river
 - D. the sound of a car horn

13. Matter can be found in three different states.

In your Answer Document, identify two states of matter and describe how the particles in matter move in each state. (4 points)

14. You can measure the weight of an object by placing it on a scale. What is weight 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 is the source for most energy found on Earth?

- A. the sun
- B. the wind
- C. heat
- D. light

Science

16. Windmills convert wind energy into what other form of energy?

- A. chemical
- B. magnetic
- C. electrical
- D. sound

17. Energy from the sun provides us with freshwater.

In your Answer Document, identify what energy the sun uses for this and explain how it provides freshwater on Earth.
(2 points)

18. Which is NOT a form of energy?

- A. electricity
- B. heat
- C. matter
- D. sound

Student Name: _____

Posttest

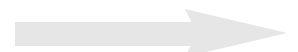
Grade 3 • Science



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)

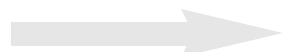
8. (A) (B) (C) (D)

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

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

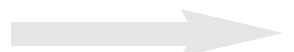
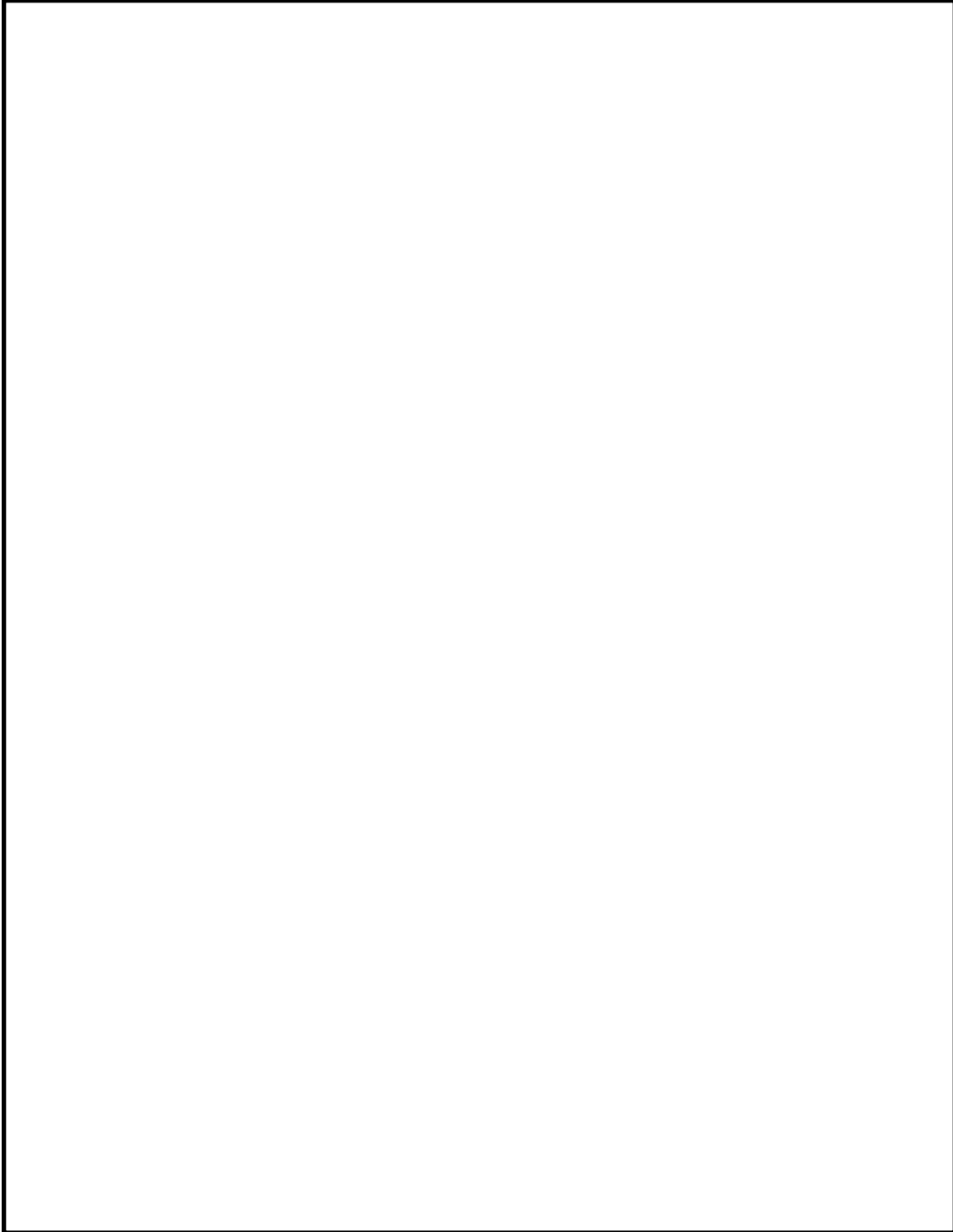
11. (A) (B) (C) (D)

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)



Posttest

Grade 3 • Science



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. texture

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

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

Correct Response: B. petroleum

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 renewable natural resource and explains one way that it can be protected. Exemplar Response Water is a renewable resource. It can be protected by wasting less and not polluting the rivers and lakes.
1 pt	The answer correctly identifies a renewable natural resource, but does not explain a way that IT can be protected -OR- incorrectly identifies a natural resource that is non-renewable and explainS how it can be protected.
0 pts	A renewable 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: D. sand

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

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

Correct Response: B. a forest

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

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

Correct Response: A. rock



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: D. white fur

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: B. sharp eyesight

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: C. stem



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: A. The adult forms.

Question 11 • Grade 3: Life Science
Multiple Choice

Content Statement: Offspring resemble their parents and each other.

Correct Response: B. They will look similar.

Question 12 • Grade 3: Physical Science
Multiple Choice

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

Correct Response: D. the sound of a car horn



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 how the particles of matter move.</p> <p>Exemplar Response</p> <ul style="list-style-type: none">• Matter can be in solid form. The particles in solid matter are packed tightly together and do not move much.• Matter can be in liquid form. The particles in liquid matter are more spread out than in a solid and move around more. <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 movement of particles.</p>
2 pts	<p>The student chooses only one correct state of matter and correctly describes the movement of the particles.</p>
1 pt	<p>Student chooses only one state of matter and incorrectly describes the movement of the particles.</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: C. the gravitational pull on an object

Question 15 • Grade 3: Physical Science
Multiple Choice

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

Correct Response: A. the sun

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 heat energy and explains how heat provides Earth with freshwater. Exemplar Response The sun provides us with heat energy. When water is warmed by the sun, it evaporates and rises. As water vapor rises it cools, and tiny water droplets form. When these droplets are packed closely together, they become visible and form a cloud. Clouds are moved over land by wind. When too much water collects in a cloud, the cloud can no longer contain all the water, and it falls.
1 pt	The answer correctly describes heat energy, but does not adequately explain how heat energy provides freshwater.
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: C. matter



Answer Key—Grade 3 Posttest

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 Posttest

Student Name	Total Points	Student Score	Notes
	23		
	23		
	23		
	23		
	23		
	23		
	23		
	23		
	23		
	23		
	23		
	23		
	23		
	23		
	23		
	23		
	23		
	23		
	23		
	23		
	23		
	23		
	23		
	23		
	23		
	23		
	23		
	23		
	23		
	23		
	23		

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