



# SCIENCE

Student Book

► **2nd Grade**

# THE LIVING AND NONLIVING SCIENCE 201

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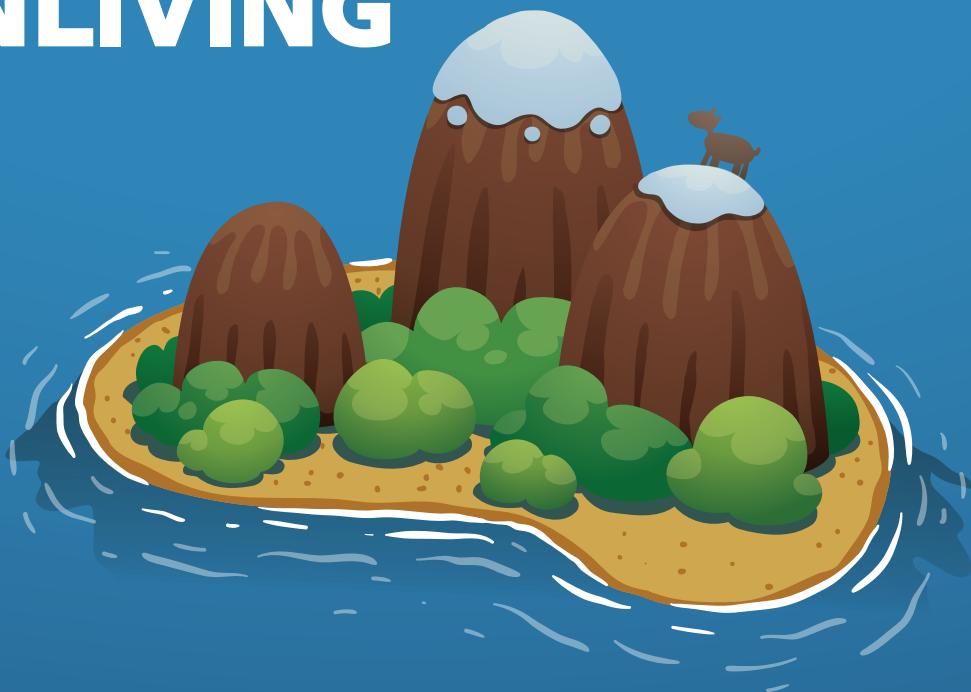
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# THE LIVING AND NONLIVING



God made all the **living** and **nonliving** things in our world. As you study this LIFEPA<sup>®</sup>C, you will learn what is living and what is nonliving. You will learn about the world God has made. You will see that what God has made is good.



## Objectives

**Read these objectives.** They will tell what you will be able to do when you have finished this LIFEPA<sup>®</sup>C.

1. You will be able to show nonliving **objects** and tell why they are nonliving.

# **1. GOD MADE LIVING AND NONLIVING OBJECTS**

The Bible is God's words written in a book. In the Bible, God tells us how our world began. God said that He made living and nonliving objects of our world.



# Words to Study

# **blessed.** Protected.

**create** (cre ate). To make something.

**divide** (di' vید). To break into parts or pieces.

**earth.** The world (planet) we live on.

**living** (liv ing). To be alive.

**multiply** (mul ti ply). To make more of the same.

**nonliving** (non liv ing). Never alive.

**object** (ob' jekt). Something you can see or feel.

**reptile** (rep tile). A creeping or crawling animal.

**separate** (sep ar ate). To set apart from other parts.

**Ask your teacher to say these words with you.**



# Teacher Check

## Initial

Date



**Print each word under the sense you would use to find out about the word.** Some words fit under more than one sense.

bells	cupcake	roses	lemonade
rain	smoke	trees	velvet
cactus	horns	sun	wet socks

## Smell

## Taste

## See

Hegel

## Touch

1.1

Look around you. You can see things. You can hear noises. Can you smell anything? **Add words to the lists you just wrote of things that are near you right now.** Put at least three words under each sense.



## Teacher Check

Initial

Dgte

# Everyone Has Bones

People have **bones**. Bones are hard. You cannot see your bones, but you can feel them.

Bones cover some of the soft parts of your body to protect them. Your bones help you walk, stand, sit, and run.

Your body bends where your bones are joined together. The place where bones are joined together is called a **joint**.



| Bones



**Do this activity to see where your body bends.**

**1.1**

After you bend your body in each step, circle the places they bend on the picture of the bones.



Stand up. Bend down and touch your toes. Don't bend your knees!



Sit in a chair. Put your legs out straight. Slowly put them down.



Lora and Keith looked around the store. Lora saw some **collars** for cats and dogs. Some were small. Others were big.

They found name **tags** to put on a collar. On the tag, the name of the pet was written. The **owner's** name, **address**, and **phone** number were also put on the tag. If a pet got lost, the one who found the animal could find the owner.

Keith laughed at the toy mice. He knew that cats would like to play with the mice.

Lora laughed at the toy bones for dogs. She knew that dogs liked bones, even toy ones.

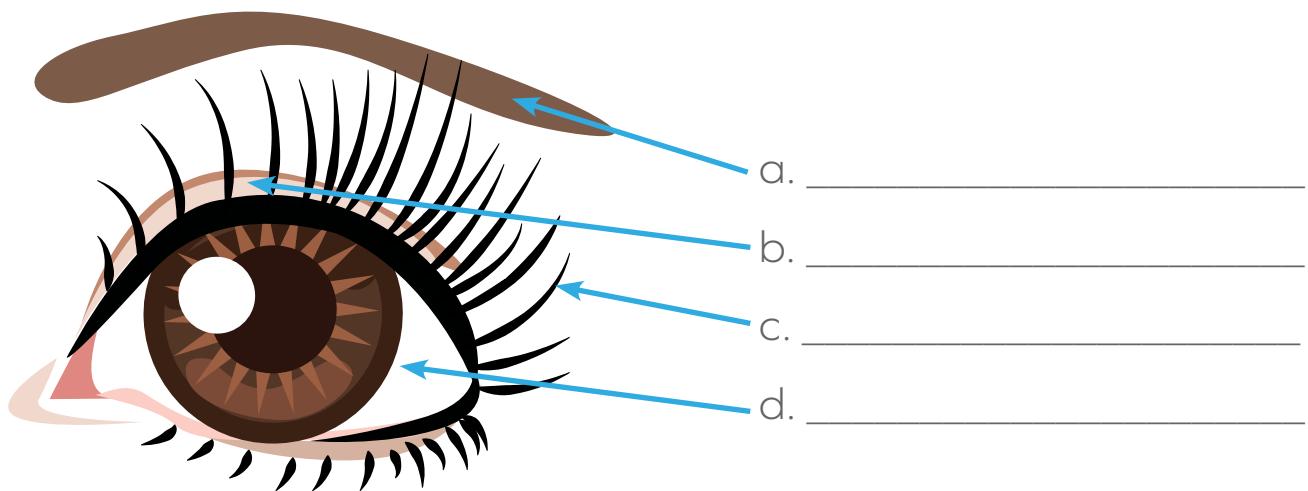


### Think about the eye.

- 1.5** Draw a line from each eye part to what each part does.
- |         |   |                          |
|---------|---|--------------------------|
| eyelash | ▶ | ◀ makes a wall           |
| eyeball | ▶ | ◀ opens and closes       |
| eyebrow | ▶ | ◀ keeps out dirty things |
| eyelid  | ▶ | ◀ does the seeing        |

- 1.6** Look at the picture of the eye below, and write these words on the right lines.

**eyelash    eyebrow    eyeball    eyelid**





## Do this activity with colors.

### These supplies are needed:

- tubes or pots of finger paint in the following colors: red, yellow, blue, black, and white
- at least 6 paper plates
- an old shirt or apron to protect your clothing
- paper towels to clean your fingers and hands

**Follow these steps and answer the questions.** Put a check (✓) in the box when you do each step.

- 1. Place small and equal amounts of the red and yellow finger paints on a paper plate.
- 2. Mix the paints together well with your fingers.
- 3. Clean your hands and fingers with the paper towel.

**1.1** What color did you make? \_\_\_\_\_

- 4. Place small and equal amounts of the red and blue finger paints on a paper plate.
- 5. Mix the paints together well with your fingers.
- 6. Clean your hands and fingers with the paper towel.

**1.2** What color did you make? \_\_\_\_\_

(continued on the following page)

# SELF TEST 1

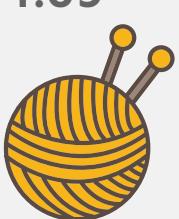
Each answer = 1 point

Write your answers in the blanks.

- 1.01** Three kinds of living things are \_\_\_\_\_, \_\_\_\_\_, and \_\_\_\_\_.
- 1.02** Living things need \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, and \_\_\_\_\_.
- 1.03** The four seasons are \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, and \_\_\_\_\_.
- 1.04** Plants and animals help people by \_\_\_\_\_  
\_\_\_\_\_

Look at the pictures. Circle the picture if it came from a plant.

Put an X on the picture if it came from an animal.





# SCIENCE

Teacher's Guide

► **2nd Grade**

# **SCIENCE 200**

## Teacher's Guide

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## INSTRUCTIONS FOR SCIENCE

The LIFEPAC curriculum from grades two through twelve is structured so that the daily instructional material is written directly into the LIFEPACs. The student is encouraged to read and follow this instructional material in order to develop independent study habits. The teacher should introduce the LIFEPAC to the student, set a required completion schedule, complete teacher checks, be available for questions regarding both content and procedures, administer and grade tests, and develop additional learning activities as desired. Teachers working with several students may schedule their time so that students are assigned to a quiet work activity when it is necessary to spend instructional time with one particular student.

The Teacher Notes section of the Teacher's Guide lists the required or suggested materials for the LIFEPACs and provides additional learning activities for the students. The materials section refers only to LIFEPAC materials and does not include materials which may be needed for the additional activities. Additional learning activities provide a change from the daily school routine, encourage the student's interest in learning, and may be used as a reward for good study habits.

# TEACHER NOTES

## MATERIALS NEEDED FOR LIFEPAK

### Required

- bean seeds
- paper cups
- soil
- 1 rock, 2 cups
- 2 labels, 3 seeds

## ADDITIONAL LEARNING ACTIVITIES

### Section 1 - God Made Living and Nonliving Objects

1. What was the earth like after the first day?
2. What would you have seen on Earth after the second day?
3. Can you tell the differences between living and nonliving things?
4. How does the sun help you to know what season it is?
5. How are fish special for living in the water?
6. How was man different from the other animals?
7. Invite a Christian to speak to the students about the Creation of the world.
8. Have the students draw a mural on a large sheet of butcher paper depicting the sequence of Creation.
9. Have students make a collection of living and nonliving objects.
10. Make up games using the homes of living and nonliving insects on cards. Each player can correctly say the object is living or nonliving, he moves forward one space. If no special board is available, use any game board with a path on it. The cards can be made by these students with the whole class involved in playing the game.

### Section 2 - Rock and Seed Experiment

This section is a special study and does not require further activities.

### Section 3 - God-Made Objects and Man-Made Objects

1. Can you see anything that God made?
2. Can you see anything that man made?
3. What is the difference in the things God made and in the things that man made?
4. What does man use to make objects?
5. To help students to become aware of different materials, students can describe objects stressing the qualities of softness, hardness, shininess, dullness, pliability, and so forth.

# ANSWER KEYS

## SECTION 1

- 1.1** God  
**1.2** daytime  
**1.3** nighttime  
**1.4** Any order:  
 a. day                  b. night  
**1.5** sky  
**1.6** Any order:  
 a. dry land or earth  
 b. sea or water  
**1.7** Any order:  
 a. plants or grass  
 b. trees  
**1.8** Answers will vary.  
**1.9** Teacher check  
**1.10** a. water                  b. air  
 c. light                  d. food  
**1.11** they are not living  
**1.12** Answers will vary.  
**1.13** Teacher check  
**1.14** Any order:  
 a. sun                  b. moon  
**1.15** to light the earth that night  
**1.16** the days  
**1.17** Any order:  
 a. summer                  b. fall  
 c. winter                  d. spring  
**1.18** Any order:  
 a. sun                  b. moon  
 c. stars  
**1.19** Any order:  
 a. fish                  b. birds  
**1.20** Any order:  
 a. air                  b. light  
 c. water                  d. food  
**1.21** Any order:  
 a. animals                  b. cattle  
 c. reptiles                  d. man  
**1.22** man  
**1.23** He made fish and birds.  
**1.24** He made animals, cattle, reptiles, and man.  
**1.25** He rested.  
**1.26** Teacher check  
**1.27** c  
**1.28** b  
**1.29** g  
**1.30** f  
**1.31** e  
**1.32** d

## SELF TEST 1

- 1.01-1.06** Any order:  
**1.01** a. day                  b. night  
**1.02** a. sky  
**1.03** a. earth                  b. sea  
**1.04** a. sun                  b. moon  
 c. stars  
**1.05** a. fish                  b. birds  
**1.06** a. animals                  b. reptiles  
 c. cattle                  d. man  
**1.07** to make something  
**1.08** the world we live on  
**1.09** set apart from other parts  
**1.10** heaven  
**1.11** Any order:  
 a. air                  b. water  
 c. food                  d. light  
**1.012** not alive  
**1.013-1.014** Any order:  
**1.013** a. sun                  b. moon  
**1.014** a. light                  b. food  
 c. water                  d. air  
**1.015** God

# SECTION 2

- 2.1** I planted my rock.  
**2.2** My rock is in the ground.  
**2.3** I watered my rock.  
**2.4** My rock is in the ground.  
**2.5** I watered my rock.  
I put my rock in the sun.  
**2.6** My rock is in the ground.  
**2.7** I watered my rock.  
I put plant food on my rock.  
**2.8** My rock is in the ground.  
**2.9** I watered my rock.  
**2.10** My rock is in the ground.  
**2.11** I planted my seeds.  
**2.12** My seeds are in the ground.  
**2.13** I watered my seeds.  
**2.14** My seeds are in the ground.  
**2.15** I watered my seeds.  
I put my seeds in the sun.  
**2.16** My seeds are in the ground.  
**2.17** I watered my seeds.  
I put plant food on my seeds.  
**2.18** My seeds are in the ground.  
**2.19** I watered my seeds.  
**2.20** A plant is growing.  
**2.21** sun  
**2.22** run  
**2.23** such  
**2.24** trust  
**2.25** dust  
**2.26** Teacher check

## **SELF TEST 2**

## SECTION 3

**3.1-3.8** Answers will vary.

**3.1** hill, beach, river, mountain

**3.2** 1. desk

2. picture

3. clock

4. pencil

5. paper

**3.3** 1. scissors

2. eraser

3. chalk

4. gloves

5. boots

**3.4** a. lawn mower    b. pan

  c. spoon              d. fork

**3.5** wood, plastic

**3.6** plastic, wood, metal

**3.7** metal, glass

**3.8** wood, metal, plastic

**3.9** desk, tent, chest, shelf

## SELF TEST 3

**3.01** God

**3.02** man

**3.03** grow

**3.04** wood, plastic

**3.05** glass

**3.06** metal, glass, plastic, wood

**3.07** paper, plastic

**3.08** plastic, metal, wood

**3.09 - 3.016** Answers will vary.

**3.017-3.020** Any order:

**3.017** light

**3.018** food

**3.019** air

**3.020** water

**3.021** c

**3.022** d

**3.023** a

**3.024** e

**3.025** b

## LIFEPAK TEST

1. nonliving
2. nonliving
3. nonliving
4. living
5. nonliving
6. living
7. living
8. nonliving
9. nonliving
10. nonliving
11. air
12. light
13. water
14. food
15. It does not grow.
16. man
17. moon
18. sea
19. star
20. sun
21. pen
22. car
23. desk
24. book
25. toy
26. metal
27. glass
28. wood, metal, or plastic
29. wood
30. plastic, metal, or wood

## ALTERNATE LIFEPAK TEST

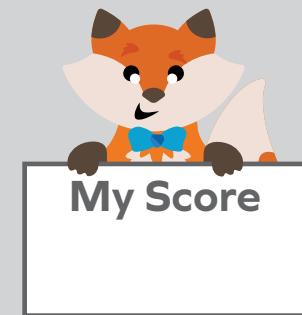
1. - 5. Examples; any order:
  1. desk
  2. pencil
  3. crayon
  4. paper
  5. book
6. - 10. Examples; any order:
  6. dog
  7. cat
  8. tomato plant
  9. tree
  10. boy
  11. circle day
  12. X on desk
  13. circle sky
  14. circle man
  15. X on paper
16. circle tree
17. X on book
18. circle star
19. X on pen
20. X on chair
21. X on rug
22. circle night
23. circle sea
24. circle water
25. - 28. Any order:
  25. light
  26. water
  27. food
  28. air

# SCIENCE 201

## ALTERNATE LIFEPAK TEST

Name \_\_\_\_\_

Date \_\_\_\_\_



**Each answer = 1 point**

**Write the names of five things that are nonliving.**

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

5. \_\_\_\_\_

**Write the names of five things that are living.**

6. \_\_\_\_\_

7. \_\_\_\_\_

8. \_\_\_\_\_

9. \_\_\_\_\_

10. \_\_\_\_\_

**Circle the things that God created. Put an X on things man has made.**

- |            |       |            |       |
|------------|-------|------------|-------|
| <b>11.</b> | day   | <b>12.</b> | desk  |
| <b>13.</b> | sky   | <b>14.</b> | man   |
| <b>15.</b> | paper | <b>16.</b> | tree  |
| <b>17.</b> | book  | <b>18.</b> | star  |
| <b>19.</b> | pen   | <b>20.</b> | chair |
| <b>21.</b> | rug   | <b>22.</b> | night |
| <b>23.</b> | sea   | <b>24.</b> | water |

**Write the four things that living objects need to live.**

- 25.** \_\_\_\_\_
- 26.** \_\_\_\_\_
- 27.** \_\_\_\_\_
- 28.** \_\_\_\_\_