

SCIENCE

Teacher's Guide

► **2nd Grade**

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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.

SCIENCE 201

Unit 1: The Living and Nonliving

TEACHER NOTES

MATERIALS NEEDED FOR LIFE PAC

Required

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

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.

6. Make a list of all objects the students see. List the materials used in each object. Teach categories as you progress with this discussion.
7. Students may construct objects from different materials.

Administer the LIFEPAC Test.

The test may be administered in two sessions. Give no help except with directions.

Evaluate the tests and review areas where the students have done poorly.

Review the pages and activities that stress the concepts tested.

If necessary, administer the Alternate LIFEPAC test.

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
1.010 heaven

1.011 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

- 2.01 plant (seed)
- 2.02 rock
- 2.03 Any order:
 - a. light
 - b. water
 - c. air
 - d. food
- 2.04 God
- 2.05 God
- 2.06 yes
- 2.07 no
- 2.08 yes
- 2.09 yes
- 2.010 no

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

LIFEPAC 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 LIFEPAC TEST

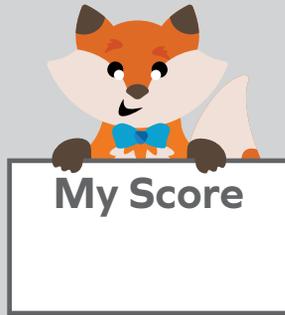
1. - 5. Examples; any order:
 1. desk
 2. pencil
 3. crayon
 4. paper
 5. book
6. - 10. Examples; any order:
 6. dog
 7. cat
 8. tomato plant
 9. tree
 10. boy
11. circle day
12. X on desk
13. circle sky
14. circle man
15. X on paper
16. circle tree
17. X on book
18. circle star
19. X on pen
20. X on 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 LIFEPAC 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.

11. day

12. desk

13. sky

14. man

15. paper

16. tree

17. book

18. star

19. pen

20. chair

21. rug

22. night

23. sea

24. water

Write the four things that living objects need to live.

25. _____

26. _____

27. _____

28. _____



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