

ROBERTSON COUNTY SCHOOLS

MASTERY GUIDE, 2004

THIRD GRADE

FIRST NINE WEEKS

SCIENCE

Scientific Method

Introduce Scientific Method:

1. Problem
2. Hypothesis
3. Materials
4. Procedure
5. Data – use graphs, charts, tables
6. Results
7. Conclusion

Cell Structure and Function

- 3.1.1 Use magnifiers to study the smaller parts of plants and identify their functions.
- 3.1.2a. Use magnifiers to observe and describe what occurs when a plant loses a specific part (e.g., leaves, roots).
- 3.1.2b. Recognize that smaller parts of organisms are essential to their well being.

Interaction Between Living Things and Their Environment

- 3.2.1 Examine an object's characteristics to determine if the object is living or non-living.
- 3.2.3 Explain how plants and animals depend upon each other and the non-living elements of an environment to meet basic needs.

Heredity and Reproduction

- 3.4.1 Recognize that organisms develop the ability to reproduce as they mature.
- 3.4.2 Note similarities and differences between parents and offspring.
- 3.4.3 Describe how an organism (e.g., frog, butterfly) changes as it matures.

Diversity and Adaptation Among Living Things

- 3.5.1 Provide specific examples of differences among plants of the same kind.
- 3.5.2 Specify the features that enable a plant or animal to survive in its environment.

Food Production and Energy for Life

- 3.3.1 Explain how animals depend on plants to meet their need for energy.
- 3.3.2 Examine the major parts of plants and determine their function.

SECOND NINE WEEKS

SCIENCE

Scientific Method

Continue to develop the students' use and understanding of the scientific method.

1. Problem
2. Hypothesis
3. Materials
4. Procedure
5. Data – use graphs, charts, tables
6. Results
7. Conclusion

Atmospheric Cycles

- 3.8.2a. Explain how changes in temperature, precipitation, wind speed/direction result in different weather conditions.
- 3.8.2b. Use data to prepare an illustration of a specific day's weather.
- 3.8.1 Compare cloud types with specific weather conditions.

Earth Resources

- 3.10.1a. Explain the relationship between rocks and minerals.
- 3.10.1b. Identify common types of rocks.
- 3.10.2 Identify materials and resources that can be reused.

Biological Change

- 3.6.1 Give examples of organisms that have become extinct.

Earth Features

- 3.9.1 Compare and contrast a variety of different landforms and bodies of water.

Interactions Between Living Things and Their Environment

- 3.2.4 Describe how environments are affected by various kinds of pollution.

THIRD NINE WEEKS

SCIENCE

Scientific Method

Continue to develop the students' use and understanding of the scientific method.

1. Problem
2. Hypothesis
3. Materials
4. Procedure
5. Data – use graphs, charts, tables
6. Results
7. Conclusion

Forces and Motion

- 3.11.1a. Describe the relationship between the amount of force applied to an object and the distance the object moves.
- 3.11.1b. Recognize that objects move differently on different surfaces.
- 3.11.2 Describe how changing the position of an object affects a balanced system.

Structure and Properties of Matter

- 3.12.1a. Classify materials according to their physical properties.
- 3.12.1b. Select and use appropriate tools to observe and measure the physical properties of materials.

Interactions of Matter

- 3.13.1 Explain how materials change their form, color, or texture when they are mixed, separated, or heated.

Forces and Motion

- 3.11.1c. Recognize that magnets move objects without touching them.

Energy

- 3.14.1 Analyze data to explain the heating and cooling of land, air, and water.
- 3.14.2a. Explain how sounds are produced.
- 3.14.2b. Differentiate between pitch and volume.

FOURTH NINE WEEKS

SCIENCE

Scientific Method

Continue to develop the students' use and understanding of the scientific method.

1. Problem
2. Hypothesis
3. Materials
4. Procedure
5. Data – use graphs, charts, tables
6. Results
7. Conclusion

Earth and Its Place in the Universe

- 3.7.1a. Recognize that a telescope serves as a tool for observing distant objects.
- 3.7.1b. Recognize that planets are major features of the universe.
- 3.7.2a. Explain how day and night result from the rotation of the earth relative to the sun.
- 3.7.2b. Observe, identify, and order the basic phases of the moon.