

# **Tri-C Elementary**

## **1<sup>st</sup> grade Science Curriculum**

### ***Revised 2009***

The following information is a suggested plan to complete the state standards for science within the four quarters of one school year. Some variation will occur.

#### **Quarter 1 - IL State Standards**

**Science Stage A, 11A.1** Describe an observed science concept.

**Science Stage A, 11A.3** Conduct guided inquiry following appropriate procedural steps and safety precautions as directed by teacher.

**Science Stage A, 11A.5** Record and store data.

**Science Stage A, 11A.7** Communicate individual and group results.

**Science Stage A, 12A.1** Apply scientific inquiries or technological designs to introduce basic needs, characteristics, and component parts of living things.

**Science Stage A, 12B.1** Apply scientific inquiries or technological designs to explore the relationships of living things to their environment.

**Science Stage A, 12B.2** Apply scientific inquiries or technological designs to explore how living things are dependent on one another for survival.

**Science Stage A, 12E.1** Apply scientific inquiries or technological designs to introduce the Earth's land, water, and atmospheric components.

**Science Stage A, 13B.2** Explore the contributions of men and women in the life, environmental, physical, earth and space sciences.

**Science Stage A, 13B.3** Describe ways that science and technology are found in real-world situations.

#### Chapter 1: Living and Non-living

- Lesson 1: What are living things?
- Lesson 2: What do plants need?
- Lesson 3: What do animals need?
- Lesson 4: What are non-living things?

#### Chapter 4: Life Cycles (First three lessons taught early due to our Butterfly Field Trip)

- Lesson 1: How does a frog grow?
- Lesson 2: How does a butterfly grow?
- Lesson 3: How do animals grow and change?

## Chapter 2: Habitats

- Lesson 1: What is a forest habitat?
- Lesson 2: What is a wetland habitat?
- Lesson 3: What is an ocean habitat?
- Lesson 4: What is a desert habitat?

### **Quarter 2 - IL State Standards**

**Science Stage A, 11A.1** Describe an observed science concept.

**Science Stage A, 11A.2** Begin guided inquiry asking questions using prior knowledge and observations, inferring from observations to generate new questions, or developing strategies to investigate questions.

**Science Stage A, 11A.3** Conduct guided inquiry following appropriate procedural steps and safety precautions as directed by teacher.

**Science Stage A, 11A.6** Analyze and display results.

**Science Stage A, 11B.2** Select a possible solution which addresses the design question.

**Science Stage A, 11B.3** Construct the selected technological solution.

**Science Stage A, 12A.1** Apply scientific inquiries or technological designs to introduce basic needs, characteristics, and component parts of living things.

**Science Stage A, 12B.1** Apply scientific inquiries or technological designs to explore the relationships of living things to their environment.

**Science Stage A, 12B.2** Apply scientific inquiries or technological designs to explore how living things are dependent on one another for survival.

**Science Stage A, 12E.1** Apply scientific inquiries or technological designs to introduce the Earth's land, water, and atmospheric components.

**Science Stage A, 12E.2** Apply scientific inquiries or technological designs to introduce weather and seasonal changes.

**Science Stage A, 12F.1** Apply scientific inquiries or technological designs to explore the familiar objects of the solar system.

**Science Stage A, 12F.2** Apply scientific inquiries or technological designs to explore the explanations of the daily and annual patterns of the Earth's motion.

**Science Stage A, 13A.2** Apply scientific habits of mind.

**Science Stage A, 13B.1** Apply the use of appropriate scientific tools in inquiry or design investigations.

**Science Stage A, 13B.2** Explore the contributions of men and women in the life, environmental, physical, earth and space sciences.

Chapter 3: How Plants and Animals Live (Lessons 4 & 5 will be used in the fourth quarter)

- Lesson 1: What helps animals live in their habitats?
- Lesson 2: How do animals get food?
- Lesson 3: What can help protect animals?

Chapter 5: Food Chains

- Lesson 1: How do plants and animals get food?
- Lesson 2: How do living things get food in a rainforest?
- Lesson 3: How do living things get food in a marsh?

Chapter 7: Weather

- Lesson 1: How can you measure weather?
- Lesson 2: How do clouds form?
- Lesson 3: What are some kinds of wet weather?
- Lesson 4: What are the four seasons?

Chapter 11: Day and Night Sky

- Lesson 1: What is in the day sky?
- Lesson 2: What causes day and night?
- Lesson 3: What is in the night sky?

### **Quarter 3 - IL State Standards**

**Science Stage A, 11A.1** Describe an observed science concept.

**Science Stage A, 11A.3** Conduct guided inquiry following appropriate procedural steps and safety precautions as directed by teacher.

**Science Stage A, 11A.4** Collect data for guided inquiry.

**Science Stage A, 11B.3** Construct the selected technological solution.

**Science Stage A, 12B.2** Apply scientific inquiries or technological designs to explore how living things are dependent on one another for survival.

**Science Stage A, 12C.1** Apply scientific inquiries or technological designs to examine forms of energy.

**Science Stage A, 12C.2** Apply scientific inquiries or technological designs to explore the states and properties of matter.

**Science Stage A, 12D.1** Apply scientific inquiries or technological designs to explore simple forces around us.

**Science Stage A, 12D.2** Apply scientific inquiries or technological designs to explore the simple concepts of motion.

**Science Stage A, 12E.1** Apply scientific inquiries or technological designs to introduce the Earth's land, water, and atmospheric components.

**Science Stage A, 12F.2** Apply scientific inquiries or technological designs to explore the explanations of the daily and annual patterns of the Earth's motion.

**Science Stage A, 13B.1** Apply the use of appropriate scientific tools in inquiry or design investigations.

**Science Stage A, 13B.2** Explore the contributions of men and women in the life, environmental, physical, earth and space sciences.

**Science Stage A, 13B.3** Describe ways that science and technology are found in real-world situations.

#### Chapter 8: Observing Matter

- Lesson 1: What is matter?
- Lesson 2: What are solids, liquids, and gasses?
- Lesson 3: How does matter change?
- Lesson 4: How can water change?
- Lesson 5: What are other ways matter changes?

#### Chapter 9: Movement and Sound

- Lesson 1: What makes things move?
- Lesson 2: What is speed?
- Lesson 3: How do things move?
- Lesson 4: What do magnets do?
- Lesson 5: How are sounds made?
- Lesson 6: What sounds are around us?

#### Chapter 10: Learning About Energy

- Lesson 1: What gives off heat?
- Lesson 2: What can energy do?
- Lesson 3: What makes light and shadows?
- Lesson 4: What uses energy around us?
- Lesson 5: How do you get energy?

### **Quarter 4 - IL State Standards**

**Science Stage A, 11A.2** Begin guided inquiry asking questions using prior knowledge and observations, inferring from observations to generate new questions, or developing strategies to investigate questions.

**Science Stage A, 11A.4** Collect data for guided inquiry.

**Science Stage A, 11A.6** Analyze and display results.

**Science Stage A, 11B.1** Propose ideas for solutions to technological design questions.

**Science Stage A, 11B.5** Communicate results of design tests.

**Science Stage A, 12A.1** Apply scientific inquiries or technological designs to introduce basic needs, characteristics, and component parts of living things.

**Science Stage A, 12B.1** Apply scientific inquiries or technological designs to explore the relationships of living things to their environment.

**Science Stage A, 12B.2** Apply scientific inquiries or technological designs to explore how living things are dependent on one another for survival.

**Science Stage A, 12D.1** Apply scientific inquiries or technological designs to explore simple forces around us.

**Science Stage A, 12E.1** Apply scientific inquiries or technological designs to introduce the Earth's land, water, and atmospheric components.

**Science Stage A, 13B.2** Explore the contributions of men and women in the life, environmental, physical, earth and space sciences.

**Science Stage A, 13B.3** Describe ways that science and technology are found in real-world situations.

**Science Stage A, 13B.4** Demonstrate an understanding of conservation and the need to protect natural resources.

Chapter 3: How Plants and Animals Live (Lessons 4 & 5 included in plant unit for spring)

- Lesson 4: What are some parts of plants?
- Lesson 5: What helps protect plants?

Chapter 4: Life Cycles (Lessons 4 – 6 included in plant unit for spring)

- Lesson 4: How does a daisy grow?
- Lesson 5: How do trees grow?
- Lesson 6: How do plants grow and change?

## Chapter 6: Land, Water, and Air

- Lesson 1: What makes up Earth?
- Lesson 2: What are rocks and soil?
- Lesson 3: What changes land?
- Lesson 4: How do living things use natural resources?
- Lesson 5: How can you reduce, reuse, and recycle?

## Chapter 12: Science in Our World

- Lesson 1: How do farmers use technology to grow food?
- Lesson 2: How does food get from the farm to the store?
- Lesson 3: What tools can you use to make dinner?
- Lesson 4: How do builders get wood for a house?
- Lesson 5: What are simple machines?
- Lesson 6: What can you use to communicate?