CARTERVILLE SCHOOL DISTRICT
SCIENCE CURRICULUM
GRADE 5
Revised August 2009

The following Inquiry Skills will be taught throughout the year.

- Identify and describe the skills scientists use.
- Know the steps of the Scientific Method.
- Participate in different levels of scientific inquiry.
- Formulate questions on a specific science topic and choose the steps needed to answer the questions.
- Formulate a hypothesis.
- Conduct scientific experiments.
- Identify variables in an experiment.
- Understand observation as using one or more of the five senses to gather information.
- Develop observation skills.
- Understand and use inference.
- Understand and make predictions.
- Be able to classifyand use dichotomous keys.
- Understand how to use and develop models.
- Identify the importance of communicating scientific information and results.
- Understand the importance of accurate measurements.
- Read and interpret data tables and graphs.

FIRST QUARTER

- Understand how living things are classified.
- Understand how plants, animals, and protists interact.
- Distinguish between invertebrates and vertebrates.
- Identify characteristics of mosses, ferns, conifers, and flowering plants.
- Understand the parts of cells.
- Understand how cells form tissues and organs.
- Understand how organs work together in different body systems.
- Describe how blood flows through the human body.
- Understand the respiratory system.
- Understand the digestive and urinary systems.

SECOND QUARTER

- Understand how plants make their own food through photosynthesis.
- Understand the function of stems and roots.
- Describe how plants reproduce.
- Identify factors that affect plant growth.
- Identify the parts of an ecosystem.
- Describe the characteristics of biomes and how organisms adapt.
- Identify the characteristics of water ecosystems.
- Compare and contrast relationships between organisms in an ecosystem.
- Describe how energy moves through an ecosystem.
- Understand the carbon dioxide, oxygen, and nitrogen cycles.

THIRD QUARTER

- Understand how changes in the environment affect ecosystems.
- Identify how inheritance and interaction with the environment can cause change.
- Understand what happens to plants and animals when habitats change.
- Describe what Earth's oceans are like.
- Identify where fresh water is found.
- Understand how water cycles through the environment.
- Explain how clouds form and how they affect precipitation.
- Identify Earth's layers.
- Explain what causes earthquakes and volcanoes.
- Describe how weathering and erosion change Earth's surface.
- Explain how minerals and rocks are identified.

FOURTH QUARTER

- Identify the properties of matter.
- Understand the difference between atoms and molecules.
- Explain how matter changes between solid, liquid and gas.
- Compare mixtures and solutions.
- Understand physical and chemical changes.
- Describe and classify chemical reactions.
- Understand how chemical properties are used.
- Learn how chemical technology improves our lives.
- Describe the parts of a wetland ecosystem.

- Understand the importance of wetlands.
- Identify macroinvertebrates.
- Dissect owl pellets.