

Science

- **Kindergarten** – (Themes) We will be using the Einstein paper, fabric and wood units. In addition, we'll study animals of various habitats such as the polar region, pond, ocean, Australia and the rainforest. Dinosaurs will be explored. We'll learn about the Pilgrims, Christopher Columbus, Lincoln, Washington and Martin Luther King. Fire prevention and basic health practices will also be taught.
- **First Grade** - First grade covers life science and earth science. In life science, we look at living things, plants, animals, and how animals meet their needs. In earth science, we learn about the sky (sun, moon, stars, planets), weather, and seasons. Students do a special pond study and nature walk at the Barkhausen Waterfowl Preserve.
- **Second Grade** - All three areas of science are covered in the second grade curriculum. Life Science includes the study of living things (plants and animals). Physical Science involves matter and energy. Changes on the earth, and the sun and its family will comprise the main topics of our Earth Science unit.

In all content areas, students will enjoy varied projects and activities, which will enhance their understanding of the concepts presented.

- **Third Grade** - The students learn about plant and animal life. They observe and record data, charts, and information on vertebrate and invertebrate animals. Ecosystems and habitats are studied. Students complete units on the human body and speed, motion, energy, and simple machines. Earth Science includes study of rocks, minerals, soil, and landforms. Activities and labs are used in the studies.
- **Fourth Grade** – Children are naturally curious and wonder endlessly about how things work and why things are the way they are. They use scientific skills each and every day – observing, identifying, classifying, and predicting. Students will learn about animals and their adaptations. Each student will research one particular animal and its adaptations. Students will study water and its uses in and out of our community. Students will investigate and measure the weather all around us. Many hands on activities will enable students to understand the states of matter. Students will also study electricity, magnetism, and the solar system.
- **Fifth Grade** - Fifth grade Science includes plant and animal cells, seed and seedless plants, life cycles, pollination and fertilization, food chains and webs. Students study biomes, and are introduced to atoms, elements, and the periodic table. We study acids and bases, mixtures and solutions, and the laws of motion. During the final quarter, students study sound, rocks, minerals, crystals, and constellations. Activities, labs, and guest speakers are utilized.

Middle School (Sixth, Seventh and Eighth Grades) -

- **SCIENCE 6**

Sixth grade science follows a curriculum of Physical Science. Major units during the year are: measurement, matter/chemistry, motion and force, work/simple machines, and the different forms of energy (light, sound static electricity and magnetism).

- **SCIENCE 7**

The curriculum for seventh grade is Life Science. Major units cover the following: cell structure, life processes, moneran, protist, fungi, plant and animal kingdoms and human anatomy.

- **SCIENCE 8**

Eighth grade covers Earth Science. Units include the following: earth-moon system, sun and stars, air and weather, oceanography, rock and minerals, and chemistry.

**Each middle school grade level begins the year working on the Scientific Method. At each level, hands on labs are conducted to increase student understanding of the concepts covered in each unit. Quarterly projects are designed for each grade level to enhance student creativity and thinking skills.