

GRADE 3

DISTRICT 742 COMMUNITY SCHOOLS

SCIENCE PROGRAM GOALS

STANDARD ONE: CONCEPTS IN BIOLOGY

Understand concepts, theories and principles of biology through investigation and analysis.

GOAL 1: Primary/Grades Pre-K-3: Directly experience the basic needs of organisms.

- A. Classify and sort seeds by physical characteristics.
- B. Label the parts of a seed and a plant.
- C. Observe and describe plant development and growth.
- D. Observe, describe, and compare structure, function and behavior of crayfish and other animals.
- E. Describe the environment of an isopod.

STANDARD TWO: CONCEPTS IN CHEMISTRY

Understand concepts, theories and principles of chemistry through investigation and analysis.

GOAL 1: Primary/Grades Pre-K-3: Directly experience solids and liquids.

- A. Demonstrate competency in using the metric system.
- B. Identify properties of water.
- C. Analyze the effect of temperature on rate of evaporation and condensation.
- D. Analyze the effect of surface area on evaporation.
- E. Observe the density change among the three phases of water.

F. Identify stages of the water cycle.

STANDARD THREE: EARTH AND SPACE SYSTEMS

Understand concepts, theories and principles of earth and space systems through investigation and analysis.

GOAL 1: Primary/Grades Pre-K-3:

Participate in direct experiences with properties of objects, patterns and cycles.

A. Identify stages of the water cycle.

STANDARD FOUR: CONCEPTS IN PHYSICS

Understand concepts, theories and principles of physics through investigation and analysis.

GOAL 1: Primary/Grades Pre-K-3:

Experience, sort and classify phenomena and objects based on one or two properties.

A. Explore, classify and record interactions of magnets and electromagnets with other objects, including the investigation of ways to strengthen electromagnets, measure and record magnetic forces, and compare and record strengths of different electromagnets.

B. Explore, classify and record interactions of electricity with different materials (conductivity).

C. Explore circuit systems.

STANDARD FIVE: ENVIRONMENTAL SYSTEMS

Apply scientific methods to issues involving relationships among the individual, the society, the economy, and the environment.

GOAL 1: Primary/Grades Pre-K-3:

Observe how the personal use of materials, energy, and water impacts the environment.

A. Observe, communicate, and compare human impact on water quality.

GOAL 2: Primary/Grades Pre-K-3:

Observe responses of organisms to changes in the environment.

A. Observe, record, and compare a select group of plants and animals in a variety of environmental conditions.