

7th Grade Integrated Science

Essential skills and knowledge for this Davis School District course

Structure and Properties of Matter

- a. Investigate atoms and molecules.
- b. Calculate mass, volume, and density of matter in different states.
- c. Observe, investigate, and record the characteristics of particles in motion.

Earth's Structure

- a. Relate and analyze density and particle size in relationship to the Earth's structure.
- b. Understand the behavior of materials and mixtures.

Structure of Organisms

- a. Observe and describe cellular structure and function.
- b. Identify the function and interdependence of organs and tissues.

Inheritance

- a. Understand the transmission of inherited traits.
- b. Relate inheritance to the adaptability of organisms.

Classification

- a. Classify matter based on observable properties.
- b. Use and develop simple classification systems.

Skill Acquisition through Practice

- a. Make predictions, design and conduct experiments, and collect data to formulate conclusions.
- b. Use data to compare, contrast, and calculate.
- c. Select and use appropriate scientific instruments.
- d. Construct models to describe concepts and principles.
- e. Use precise scientific language in oral and written communication.