

Sherwood Middle School Science Topics

Grade 5 Science Overview

• Inventions and Innovations

- Defining Technology*
- Inventions vs. Innovations*

• Earth in our Solar System

- Relationship between Earth, Sun, Moon*
- Cause of Day and Night*
- Appearance of Shadows*

• Matter

- Introduction to Matter*
- States of Matter*
- Law of Conservation of Matter*
- Properties of Matter*
- Introduction to Mixtures and Chemical Reactions*

• Water

- The Water Cycle*
- Watersheds*
- Water Pollution*

• Movement of Matter & Energy Through an Ecosystem

- Energy Flow through an Ecosystem*
- Changes within an Ecosystem*

• The Importance of Plants

- Needs of Plants -Photosynthesis*
- Plant Adaptations*
- Plants as Resources for Humans*

Grade 6 Science Overview

• Earth's Place in the Universe

- The Elements of Our Solar System*
- Size and Distance Within the Solar System*
- The Force of Gravity*
- Phases of the Moon*
- Solar and Lunar Eclipses*
- Reason for Seasons*

• Fossils and Evidence of Plate Tectonics

- Formation of Fossils*
- Changes in Organisms and Environments Over Time*
- The Law of Superposition*
- Geologic Time Scale*
- Evidence of Continental Drift*

• Cells

- Characteristics of Life*
- Living, Non-living, Dead*
- Cell Theory*
- Using Microscopes*
- Organelles Structure/Function*
- Osmosis and Diffusion*
- Similarities and Differences Between Plant and Animal Cells*
- Cellular Organization*

• Density

- Defining and Measuring Mass and Volume of Objects*
- Calculating Density of Objects*
- Density in the Real World*

• Waves

- Properties of Waves*
- Electromagnetic Waves*
- Mechanical Waves*
- Transfer of Energy Through Waves*
- Reflection, Refraction, and Transmission of Waves*

