

Science Curriculum

Kindergarten

Physical Science:

- Exploring objects with our senses
- Push/pull

Earth Science:

- Introduction to weather
- Observing and describing the Earth and sky

Life Science:

- Characteristics and needs of living things
- Body parts
- The senses
- Good hygiene

First Grade

Physical Science:

- Introduction to physical science (Chemical reactions, phases of matter, Sound waves, static electricity)
- Motion
- Magnets

Earth Science:

- Weather and Seasons
- Earth's water's and land

Life Science:

- Variety of living things
- Collecting and observing living organisms
- Good hygiene- Keeping fit and healthy

Second Grade

Physical Science:

- Energy and motion- simple machines
- Predicting experiment outcomes
- Sound

Earth Science:

- Earth's changes over time (History of the dinosaurs)
- Rocks- fossils
- Types of soil and water on Earth

Life Science:

- Interactions between plants and animals
- Life cycles (animals)
- Habitats (zoo's)
- Identifying parts of living things
- Causes of disease

Third Grade

Physical Science:

- Scientific method
- Introduction to Matter
- Energy (forces, light)

Earth Science:

- Sun, moon, Earth
- Earth's resources

Life Science:

- Roles of living things
- Life cycles (plants)
- Habitats (desert, forest)
- Hygiene

Fourth Grade

Physical Science:

- Scientific method- Introduce: Hypothesis, control variables
- Magnetism and electricity
- Properties of matter
- Scientific measurements (metric)

Earth Science:

- Weather
- Earth's climates
- Land resources

Life Science:

- Classification of living things
- Living systems (respiration, circulation, digestion)
- Nutrition- Good eating habits
- Safety- staying home alone
- Introduction to immune system

Fifth grade

Physical Science:

- Matter and energy
- Work and machines
- Light and sound
- Introduction to Newton's Law's
- Scientific Hypothesis, Control/ Variables

Earth Science:

- The solid Earth
- The solar system and beyond

Life Science:

- Populations and ecosystems
- Systems of living things- The nervous system
- Plant cells
- Hygiene- DARE- fitness and health

Sixth Grade

Physical Science

- Introduction to matter
- Elements and the Periodic Table
- Chemical Reactions
- Atoms and Bonding
- Acids, Bases and solutions
- Motion
- Forces
- Work and machines
- Energy and Power
- Heat
- Magnetism
- Electricity
- Ave
- Sound
- Light
- Outlining
- Scientific Methods/ Analyzing Experiments
- Science Fair

Seventh and Eighth Grades

Earth Science and Life Science rotate every other year.

Earth Science

- Mapping Earth surfaces
- Minerals
- Rocks
- Plate Tectonics
- Earthquakes
- Volcanoes
- Weathering and soil erosion
- Geological time
- Energy resource
- Fresh Water
- Ocean Water
- Atmosphere
- Weather factor
- Weather pattern
- Climate
- Astronomy
- Outlining
- Scientific Methods/ Analyzing Experiments
- Science Fair

Life Science

- Simple organisms- (viruses, bacteria, protists, fungi) their differences, life functions and identification
- Plants-parts, cell organelles, seed identification
- Animals- Parts, identification and differences of Sponges, Cnidarians, worms, mollusks, arthropods, echinoderms, fish, amphibians, reptiles, birds, and mammals
- Animal cells and heredity- cell structures and functions of organelles, cell process and energy, genetics and heredity
- Human body and health
- Organs and their functions
- Bones muscles and skin
- Food , digestion
- Circulation
- Respiration
- Excretion
- Immune system
- Nervous system
- Endocrine system
- Reproductive system
- Bioethics
- Outlining
- Hospital- Emergency care