

Science Curriculum - Grade 1

GRADE ONE ESSENTIAL SKILLS

- Content Skills- Students will demonstrate an understanding that cycles are a repeating pattern in living and non-living objects. Students will demonstrate an understanding that properties distinguish one object from another.
- Process Skills/Scientific Method –Children will use the scientific method in our inquiry-based activities in all grade levels and content areas in the science curriculum. – Students will use standard/non-standard measurement scales and units and to observe and describe, predict, sort, categorize and record
- Scientific Technology & Tools – Students will use appropriate tools, technology, and techniques to gather, analyze, interpret, and share data. (Thermometers, rulers (inch & cm), rain gauges (cm units), magnifying glasses, simple microscopes, balances, computers and safety goggles)
- Science Safety- Students will follow safety instructions, directions, and use appropriate safety equipment.

LIFE SCIENCE CONTENT

Life Cycles of Insects

- Students will explain in their own words, with or without visuals, the life cycle of an insect
- Students will draw and label, or build models and label the basic anatomy of an insect
- Students will explain in their own words, with or without visuals, the basic functions of insects in the world

EARTH/SPACE SCIENCE CONTENT

Weather - STC

- Students will be able to observe, describe and compare seasonal change, daily temperature and precipitation and seasonal cycles.
- Students will explain in their own words how weather affects the decisions that people make.
- Students will use features, patterns and observations of weather to make weather predictions
- Students will observe, describe, and record weather conditions such as clouds, temperature, wind speed, and precipitation

PHYSICAL SCIENCE CONTENT

Properties of Matter

- Students will list some observable properties of solids, liquids, and gases
- Students will define matter
- Students will classify substances according to physical properties
- Students will perform an experiment to demonstrate common properties of gases, liquids and solids