

Subject: Science 5	Calendar: First 3 weeks	Timeframe: wks 1-3	Level/Grade: Elem
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Unit I: Science Safety, Procedures and processes

Unit Objectives: During this unit, the student will:

Identify and use safe practices during field and laboratory investigations
 Dispose or recycle materials appropriately
 Use the scientific method to plan and implement an investigation
 Collect information by observing and measuring and organize/ display the information in simple graphs or charts
 Analyze and interpret information from an investigation and construct reasonable explanations
 Communicate valid conclusions from investigations

Lessons:

1. The student will act out and safe lab procedures and identify lab hazards.
2. The students will play the Hazard and Precaution game
3. The students will discuss ways that materials can be conserved or recycled.
4. The students will design and conduct lab experiments following the scientific method guidelines.
5. The students will create data displays to support the conclusion of their experiments

Vocabulary:

recycle: reuse materials
conservation: the careful use and protection of natural resources
precaution: something done to prevent an accident
hazard: dangers one encounter in any investigation
assumption: a belief based on fact that has not been proven
scientific method: the process used to answer questions about the physical world
scientific process: the series of steps used to investigate the natural world
hypothesis: a predicted answer to a scientific question
testable: can be observed and measured
variable: anything that can change in an experiment
control: a feature that is not changed in an experiment
observation: information gathered using your senses
data: collected information
analyze: look at and study the data from an experiment
interpret: explain what you think the data means
trial: a single completed investigation
conclusion: a judgment supported by facts
theory: an explanation of why something happens in nature
inference: a decision based on observations and reasoning