

Edusmart Unit I Vocab - Safety and Scientific Processes

- **Conclusion** - the final answer to the problem, based on the data collected during the investigation
- **Constants** - factors in a investigation that are not allowed to change
- **Data** - a piece of information collected through observations, experimentation, and other measurement
- **Demonstration** - a presentation to show how to do something or how something works
- **Experiment** - a test you plan to find the answer to a question
- **Experimental Investigation** - a type of scientific investigation that seeks to solve a problem by conducting a controlled experiment to test the hypothesis
- **Hypothesis** - what you think will happen based on what you know
- **Independent variable** - the one condition that varies during a scientific investigation
- **Investigate** - explore
- **Materials** - the tools, equipment, and supplies needed to perform the procedure during a scientific investigation
- **Observational Investigation** - a type of scientific investigation that seeks to solve a problem through careful observations
- **Predict** - to think about what might happen based on what you already know
- **Problem** - an unanswered question that may be solved by performing an experiment or observational investigation

- **Procedure** - the steps followed during a scientific investigation to test the hypothesis
- **Record** - to put something in writing, pictures or music
- **Research** - to gather information about a topic
- **Scientific method** - a set of steps scientists follow to answer questions about the world
- **Senses** - seeing, hearing, tasting, touching or smelling; these are used to make observations
- **Research** - to gather information about a topic
- **Steps to the Scientific Method:**
 - Identify the problem
 - Research the problem (*sometimes not required*)
 - Ask a testable question
 - State a hypothesis
 - Collect materials
 - Conduct an experiment
 - Analyze the results and record data
 - Draw a conclusion