

Mini-Office: Science Process Skills

Science: an organized approach to exploring the environment around us.

Observation: using the senses and tools to gather information about objects or events.

Qualitative: describing shape, color, texture, sound, or position.
Qualitative L = it's shaped, colored, feels, sounds like another object

Quantitative: Numerical estimation or measurement of the mass, length, area, perimeter, volume, or temperature of an object or environment. **Quantitative N = number**

Classification: Comparing, sorting, and grouping objects or events according to similarities and differences.

Inference: Analyzing an observation based on data and prior knowledge, and creating a mental model that may explain the observation. **Infer = Observe + What you already Know**

Prediction: Using observations and inferences to forecast in advance what will happen during a future observation or experiment.
Predict = Observe + Infer + Future Thinking

Hypothesis: an educated guess, usually expressed as an "If . . . then . . ." statement, based on previous observations.

Experiment: a fair test to see if a hypothesis is correct.

Variables: the objects or measurements that change during an experiment or observation.

Communication: using visuals (drawings, tables, graphs), written, or oral presentations to describe objects and explain ideas and actions.