**SCIENTIFIC INQUIRY**

**TYPES of Investigations**

* **Remote observations**
* **Field studies**
* **Collections**
* **Systematic observations**
* **Modeling (physical, mathematical, computer simulations)**
* **Literature studies**
* **Experiments**

**Experiments -The Scientific Method**

* Ask a question
* Collect information
* Form a hypothesis
* Test the hypothesis: experiment, observe, measure. Organize and record the data and observations.
* Analyze the results
* Draw conclusions.
* Communicate results

**Independent variable:** the variable in an experiment that you change (example: the amount of water added to a plant)

I change-MANIPULATED

**Dependent variable:** the variable in the experiment that you measure or observe.

I measure-RESPONDING

**Control:** factors that are all kept the same except for the variable that is changed

Stays the same

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