

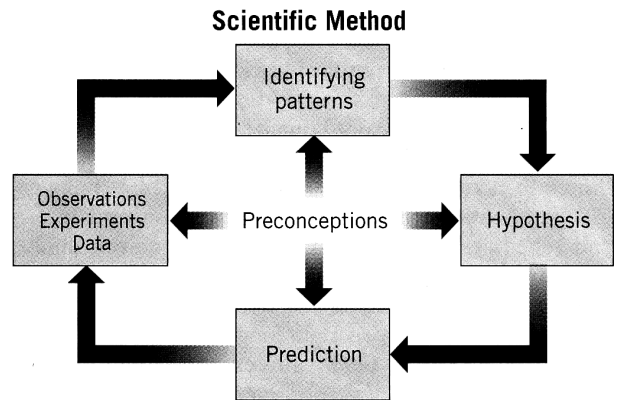
**Unit 1 Notes: PATHS TO DISCOVERY**

Science ...

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**Scientific Method:** a systematic approach to problem solving

1. State the problem
2. Gather information / Make observations / Identify patterns
3. Form a hypothesis / Make predictions
4. Test the hypothesis
5. State a conclusion



**Hypothesis:**

**Conclusion:** statement that confirms the hypothesis was or was not correct. If the conclusion is wrong a new hypothesis is stated and the process is repeated

**Scientific Theory:**

**Scientific Law:**

**Experiment:** an organized procedure for testing a hypothesis...typically has a control and independent and dependent variables.

**Control:** a standard for comparison

**Independent variable:** the factor (or variable) that is changed by the experimenter

**Dependent variable:** the factor (or variable) that **responds** to change in the independent variable

**Other Ways of Knowing?**

**Metric System:**

**Fundamental or base Unit:**

**Derived Unit:**

**Prefixes:**

**Conversion between units:**

**Scientific Notation:**

**Measurements:**

**Significant digits:**

**Precision:**

**Accuracy:**