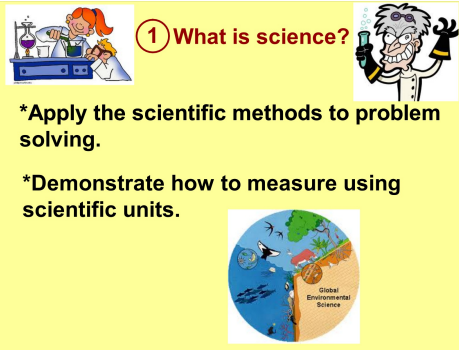



① What is science?

- *Apply the scientific methods to problem solving.
- *Demonstrate how to measure using scientific units.




The Work of Science

- * It is an organized way of studying and finding the answers to questions.



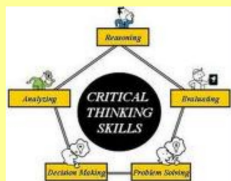
Types of Science

- *Many types of science exist. Each is named for what the scientist study's.



Critical Thinking

- Is a skill used to solve problems.
- *Separate important information from unimportant information.



Solving Problems

- *State the Problem
- *Gather Information
- *Form a Hypothesis
- *Perform an Experiment
- *Analyze Data
- *Draw Conclusions

Hypothesis not Supported Hypothesis Supported

Reporting Results

- *Is important so that the experiment can be replicated or improved.



Developing Theories


- * It is an explanation based on observations and experiments. Not a guess.
- *Data from several experiments must be collected before a hypothesis can become a theory.

A valid theory raises many new questions and new data/experiments may change the theory.

Laws


- *Tell you what will happen under certain conditions.

Laws are unlikely to change unlike theories. However they don't always say why or how something happens.



Measuring with Scientific Units (SI)

- *All scientists use SI (Metric System).
- *Measurements must be precise and accurate.



Safety First



- Follow safety rules to protect you and your classmates.

