

The Nature of Science

Science

- What is it?
 - A logical and Methodical way of studying the world around us.
- What it uses.
 - Relies on Evidence
 - This evidence is examined and discussed
 - Follows a process guided by certain rules

Science

- Tries to answer questions about our world
- 3 basic questions
 - What's there?
 - How does it work?
 - How did it come to be this way?

The Process

- Inferences are logical conclusions based on observable facts.
- Scientific claims are based on testing explanations against observations
- Scientific claims are subject to peer review and replication.

Theories

- What is a Theory?

Theory

- A theory is well supported explanation of some aspect of the natural world
- Theories are the best explanation that fits most or all of the evidence.