

Essential Questions:
What is science?

Science

Objectives:

Describe the characteristics of science.

What is science?

- Science is an organized body of knowledge about nature
 - For this class, nature consists of everything that is not supernatural
- Science is the product of observations, common sense, and rational thinking.

What is science?

- Science is a human endeavor that dates back before recorded history.
- The rational thought involved in science became popular in Greece during the 3rd and 4th centuries BC.
- Scientific discoveries are often opposed, especially if they conflict with what people want to believe.

What is science?

- Science is verifiable and self-correcting.
 - Scientific claims are tested against observations of the natural world and the ones that fail the test are rejected
 - Scientific claims are subject to peer review and replication.
- Albert Einstein said: “Many experiments can show that I’m right but it takes only one (that can be repeated) to show that I am wrong.”

What is not science?

- Science uses mathematical equations to help show relationships; however, science and mathematics are not the same thing.
- Nearly all forms of technology are applications of science, but science and technology are not the same thing.
- Studies dealing with supernatural subjects are not scientific