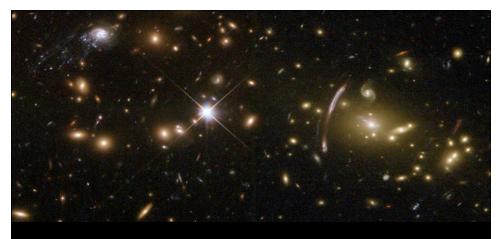


Student Work, Science Collages

CHARLENE ELLINGSON SCIENCE TEACHER, HENRY HIGH SCHOOL

What is Science Literacy?

- Can you correctly identify each of the statements at the right as true or false?
- The center of the earth is very hot.
- Lasers work by focusing sound waves.
- All radioactivity is manmade.
- Electrons are smaller than atoms.
- Antibiotics kill viruses as well as bacteria.



"Scientific literacy, quite simply, is a mix of concepts, history, and philosophy that help you to understand the scientific issues of our time."

Robert M. Hazen, Science Matters: Achieving Scientific Literacy

SCIENTIFIC LITERACY

<u>Agenda</u>

Who I am

What is Science Literacy?

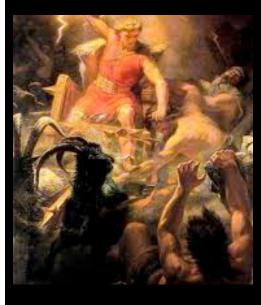
Writing Prompt: Create a story to explain thunder and lightening.

Sophie's World

If Time: Milky Way Plate Tectonics



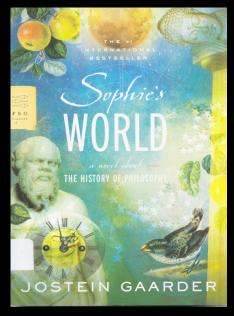
Myth — Natural Philosophy — Science

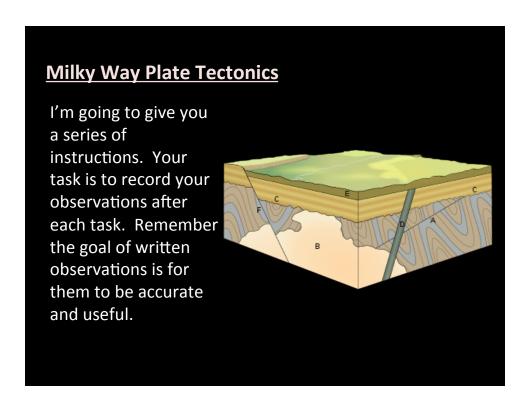


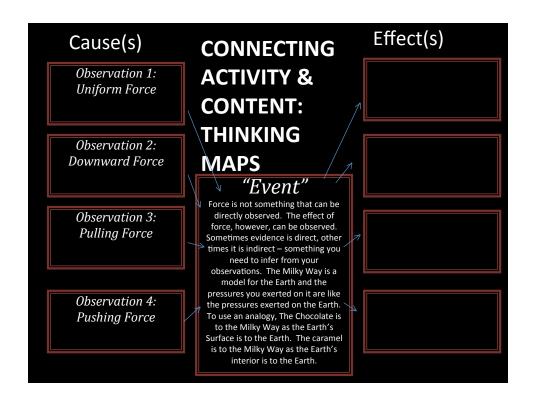
- Mythological explanation was that Thor rode across the sky in a chariot pulled by goats, fighting the forces of chaos – the treacherous giants.
- Thor's hammer gave him almost limitless power. When he threw it he could make it rain or slay giants.

Learning Goal: Understand how scientists use models to help them understand the natural world.

- Why are Legos the most ingenious toy in the world?
- Vocabulary Activity
- Reading







Force & Plate

Tectonics Background

Force is a pushing or pulling agency that makes objects change speed, change direction or stop. You were applying different forces to the Milky Way, much as forces act on the Earth. The force caused a change. There are two types of forces: Uniform force and Acceleration. Uniform force is when you are moving at a constant speed and direction or stopped. Acceleration is a nonuniform force. A common example of this is speeding up in a car or the act of stopping is technically also acceleration. Examples of force are gravity, friction and magnetism.

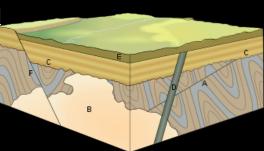


Plate tectonics is a theory which describes the large-scale movement of the Earth's crust. The Earth's crust is broken up into eight major tectonic plates. These plates move in relation to one another at one of three types of plate boundaries causing earthquakes, volcanoes and mountain-forming due to pushing, pulling, sliding or downward forces. If plates move toward each other the effects of the force differ from what happens when they move apart or slide along fault boundaries. Since the effects rarely are observed during one's lifetime, Geologists must look for indirect evidence by learning to read the relative age of rocks. Scientists can then piece together understanding of the Earth's geologic history.