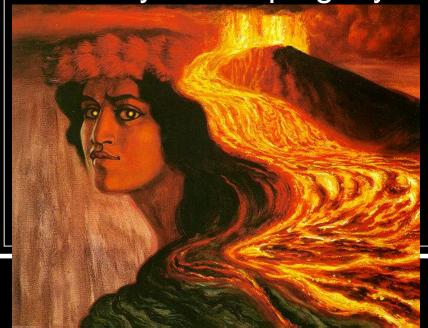
What is Earth Science Handout 1 (purple)

How did cultures throughout history attempt to explain events such as volcano eruptions, earthquakes, and eclipses?

By developing myths or stories.





- How does modern science attempt to understand Earth and its changing landscape?
 - Modern science searches for natural causes and uses careful observation.

The Scientific Study of The Earth

- Scientists in China began keeping records of earthquakes as early as _____ BCE.
 - 780 BCE.

- Based on their observations, the Maya created _____.
 - calendars.

Earth science is the scientific study of

Earth and the universe around it.

- It is assumed in Earth science that causes of natural events or phenomena _____.
 - can be understood through careful observation and experimentation.

Branches of Earth Science

- What is the scientific study of the oceans called?
 - oceanography

- A branch of science called ______ is the scientific study of Earth's atmosphere, especially in relation to weather and climate.
 - meteorology

- Name two technologies that meteorologists use to study the atmospheric conditions that produce weather.
 - Satellites
 - Weather maps
 - Computer models

- Modern astronomers use Earth- and spacebased _____ to study the sun, the moon, the planets, and the universe.
 - telescopes

- Name four issues that environmental scientists study.
 - The use of natural resources
 - Pollution
 - The health of plant and animal species on Earth
 - The effects of industries and technologies on the environment

- What natural event could bury a town under ash?
 - volcano

Chapter 1 Section 1 Review Page 8 Questions 1-7

1. Discuss how one culture contributed to modern science.

- Chinese: kept records of earthquakes over 2,500 years ago
- Greeks: studied rocks and minerals over 2,200 years ago
- Mayans: tracked movements of sun, planets, and moon thousands of years ago
- Mayans: observations of sky led to accurate calendars

2. Name the four major branches of Earth science.

- Geology
- Oceanography
- Astronomy
- Meteorology

We also will study Environmental Science

3. Describe two specialized fields of geology.

- Some explore for mineral and fossil fuel deposits, earthquakes (seismologists)
- Volcanoes (Volcanologists)
- Some study the history of Earth using fossils (paleontologists)

4. Describe the work of oceanographers and meteorologists.

 Oceanographers study ocean currents, tides, and waves.

Meteorologists study weather patterns and predict storms.

5. Explain how the work of astronomers has been affected by technology.

Telescopes, satellites, and space probes have expanded astronomers view and knowledge of the universe

6. How have Earth scientists improved our understanding of the environment?

- Earth scientists have helped us understand the forces that shape Earth and thus shape the environment we live in.
- Their understanding helps predict geologic events and helps us find Earth resources we need.

7. Give two examples of how exploring space and exploring the ocean depths are similar.

- Both are inhospitable environments for humans (we cannot survive), and
- Both require the use of special equipment for humans to study them.

The End???

