

Earth Science is the study of Earth and the universe around it. Earth Scientists study the solid earth, the oceans, the atmosphere, and the universe. Most Earth Scientists specialize in one of these areas of study:

Geology

The study of the history and structure of the solid Earth is called Geology. Some geologists explore Earth's crust for coal, oil, gas, and other resources. Other geologists study the forces inside Earth to predict earthquakes and volcanic eruptions.

Oceanography

Oceans cover nearly 3/4 of Earth's surface. The study of Earth's oceans is called oceanography. Some oceanographers work on research ships that are equipped with special instruments for studying the sea. Other oceanographers study waves, tides, and ocean currents.

Meteorology

The study of Earth's atmosphere is called meteorology. Meteorologists work as weather observers and measure things like wind speed, temperature, and rainfall. This weather information is used to prepare weather maps. Other meteorologists make weather forecasts. Some meteorologists study climate, the patterns of weather that occur over periods of time.

Astronomy

The study of the universe beyond Earth is called astronomy. Astronomy is one of the oldest branches of Earth Science. Modern astronomers use telescopes and other tools on Earth and in space to study the sun, the moon, the planets, and the universe.

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Your summer assignment: *Tell me which area of Earth Science you're most interested in. Will you choose Geology, Oceanography, Meteorology, or Astronomy? Tell me why you're excited to learn about your chosen topic. You can write your answer (one paragraph or more) on this page or you can email your work to me at ssanders@derechhatorah.org. We'll go over your answers in class when school begins in September. Get ready for hands-on fun while you learn all about Earth Science. The 23/24 school year of science will be out of this world! I can't wait to see you in the STEM lab! I'm so excited!!!*

