

Amplify Science
6th Grade Earth Science
Units of Study and Guiding Question

- **Geology On Mars** - How can we search for evidence that other planets were once habitable?

- **Plate Motion** - Why are fossils of Mesosaurus separated by thousands of kilometers of ocean when the species once lived all together?
 - **Plate Motion Engineering Internship**-Students will consider the design problem of how to protect people from tsunamis, using historical data about the frequency of different magnitudes of earthquakes along the plate boundaries in the Indian Ocean region.

- **Rock Formations**- Why are rock samples from the Great Plains and from the Rocky Mountains composed of such similar minerals, when they look so different and come from different areas?

- **Oceans, Atmosphere, and Climate** - During El Niño years, why is Christchurch, New Zealand’s air temperature cooler than usual?

- **Weather Patterns**- Why have recent rainstorms in Galetown been so severe?

- **Earth, Moon and Sun** - How can an astrophotographer plan for the best times to take photos of specific features on the Moon?

- **Earth’s Changing Climate** - Why is the ice on Earth’s surface melting?
 - **Earth’s Changing Climate Engineering Internship**- As civil engineering interns at Futura Engineering, they learn about The Design Cycle and apply their understanding of energy and climate science to create roof modification designs for a city in the desert.