



Standards Covered in this Unit

Dynamic Earth Processes

3. Plate tectonics operating over geologic time has changed the patterns of land, sea, and mountains on Earth's surface. As the basis for understanding this concept:
- a. *Students know* features of the ocean floor (magnetic patterns, age, and sea-floor topography) provide evidence of plate tectonics.
 - b. *Students know* the principal structures that form at the three different kinds of plate boundaries.
 - c. *Students know* how to explain the properties of rocks based on the physical and chemical conditions in which they formed, including plate tectonic processes.
 - d. *Students know* why and how earthquakes occur and the scales used to measure their intensity and magnitude.
 - e. *Students know* there are two kinds of volcanoes: one kind with violent eruptions producing steep slopes and the other kind with voluminous lava flows producing gentle slopes.
 - f. *Students know* the explanation for the location and properties of volcanoes that are due to hot spots and the explanation for those that are due to subduction.

The above standards will be covered by the Benchmark Tests given at the end of each unit. Students should use these standards as a study guide. General tutoring is available after school for all science classes; ask your teacher for details. Targeted tutoring will be available specifically for those students who do not pass the Benchmark Test. Details regarding targeted tutoring will be sent home as required.