

GRADE 6

1a

## Plate Tectonics & Earth's Structure

Plate tectonics accounts for important features of Earth's surface and major geologic events. As a basis for understanding this concept:

Students know evidence of plate tectonics is derived from the fit of continents; the locations of earthquakes, volcanoes, and mid-ocean ridges; and the distribution of fossils, rock types, and ancient climatic zones.

GRADE 6

1b

## Plate Tectonics & Earth's Structure

Plate tectonics account for important features of Earth's surface and major geologic events. As a basis for understanding this concept:

Students know Earth is composed of several layers: a cold, brittle lithosphere; a hot, convecting mantle; and a dense, metallic core.

GRADE 6

1C

## Plate Tectonics & Earth's Structure

Plate tectonics account for important features of Earth's surface and major geologic events. As a basis for understanding this concept:

Students know lithospheric plates the size of continents and oceans move at rates of centimeters per year in response to movements in the mantle.

GRADE 6

1d

## Plate Tectonics & Earth's Structure

Plate tectonics account for important features of Earth's surface and major geologic events. As a basis for understanding this concept:

Students know that earthquakes are sudden motions along breaks in the crust called faults and that volcanoes and fissures are locations where magma reaches the surface.

GRADE 6

1e

# Plate Tectonics & Earth's Structure

Plate tectonics account for important features of Earth's surface and major geologic events. As a basis for understanding this concept:

Students know major geologic events, such as earthquakes, volcanic eruptions, and mountain building, result from plate motions.

GRADE 6

1f

## Plate Tectonics & Earth's Structure

Plate tectonics account for important features of Earth's surface and major geologic events. As a basis for understanding this concept:

Students know how to explain major features of California geology (including mountains, faults, volcanoes) in terms of plate tectonics.

GRADE 6

1g

## Plate Tectonics & Earth's Structure

Plate tectonics account for important features of Earth's surface and major geologic events. As a basis for understanding this concept:

Students know how to determine the epicenter of an earthquake and know that the effects of an earthquake on any region vary, depending on the size of the earthquake, the distance of the region from the epicenter, the local geology, and the type of construction of the region.