

has and (e.g., tsunamis, earthquakes, hurricanes, coastal erosion).

Tectonics and Internal Earth Processes

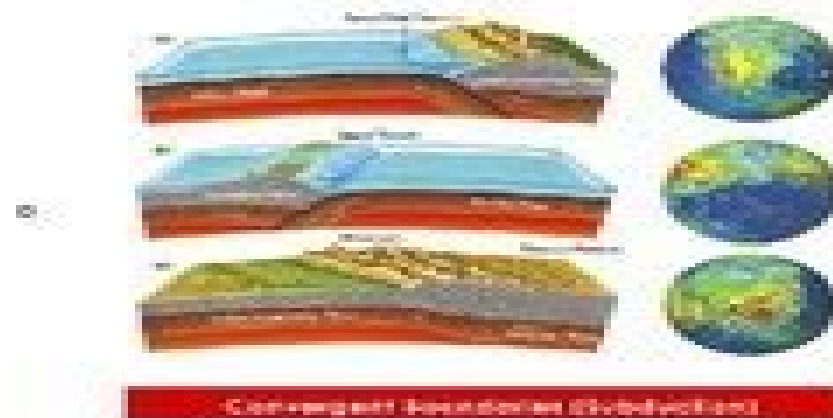
1. Theory of plate tectonics and its supporting evidence

a. Plate movement

- Plate tectonics is the theory that Earth's outer shell is divided into several plates that glide over the mantle, the rocky inner layer above the core. The plates act like a hard and rigid shell compared to Earth's mantle. It has strong outer layer is called the lithosphere.

b. Convergent, divergent, and transform boundaries

- **Convergent:** In plate tectonics, a convergent boundary, also known as a destructive plate boundary (because of subduction), is an actively deforming region where two (or more) tectonic plates or fragments of the lithosphere move toward one another and collapse.



- **Divergent:** In plate tectonics, a divergent boundary (or divergent plate boundary (also known as a constructive boundary or an extensional boundary) is a linear feature that exists between two tectonic plates that are moving away from each other.
- **Transform:** Transform boundaries are places where plates slide sideways past each other. At transform boundaries lithosphere is neither created nor destroyed. Many transform boundaries are found on the seafloor, where they connect segments of diverging mid-ocean ridges. California's San Andreas fault is a transform boundary.

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