

**\* sparkcharts**

## Geology and Earth Science

### GEOLOGY

**GEOLOGIC TIME**

Period	Approx. Duration
Quaternary	0 - 2.6 million years ago
Pleistocene	2.6 million - 11,700 years ago
Holocene	11,700 years ago - present
Cenozoic	66 million - 0 years ago
Neogene	23 million - 2.6 million years ago
Quaternary	2.6 million - 0 years ago
Cretaceous	145 - 66 million years ago
Jurassic	201 - 145 million years ago
Triassic	252 - 201 million years ago
Permian	252 - 252 million years ago
Carboniferous	359 - 252 million years ago
Devonian	359 - 359 million years ago
Silurian	444 - 359 million years ago
Ordovician	444 - 444 million years ago
Pre-Cambrian	444 - 444 million years ago

**TECTONICS**

- 1. **Plate Tectonics:** The study of the movement of the Earth's lithospheric plates.
- 2. **Convergent Boundaries:** Where two plates move toward each other.
- 3. **Divergent Boundaries:** Where two plates move away from each other.
- 4. **Transform Boundaries:** Where two plates slide past each other horizontally.

**THE EARTH'S SPHERES**

- 1. **Geosphere:** The solid Earth, including the crust, mantle, and core.
- 2. **Hydrosphere:** All the water on Earth, including oceans, lakes, and rivers.
- 3. **Atmosphere:** The layer of gases surrounding the Earth.
- 4. **Biosphere:** The layer of life on Earth.

**GEOGRAPHY**

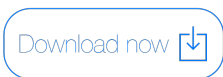
- 1. **Latitude:** The angular distance north or south of the equator.
- 2. **Longitude:** The angular distance east or west of the prime meridian.

**Diagrams:**

- Geological Time Scale:** A vertical bar showing the sequence of geological periods from the Quaternary to the Pre-Cambrian.
- Earth's Cross-Section:** A diagram showing the Earth's internal layers: crust, mantle, and core.
- Plate Tectonics:** A diagram showing the movement of tectonic plates at convergent, divergent, and transform boundaries.
- Geography:** A diagram showing the Earth's coordinate system with latitude and longitude lines.

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