

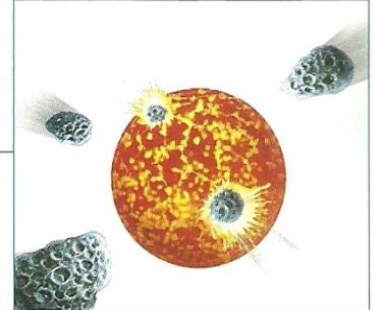
WHAT SHOULD YOU KNOW?

INTERNAL DYNAMICS OF THE EARTH

Internal dynamics is the study of phenomena caused by the internal energy of the planet.

Phenomena caused by internal energy of the Earth

- **Earthquakes.** An earthquake is a violent trembling of the Earth's crust which lasts a short time and varies in intensity.
- **Volcanic eruptions.** Magma is expelled to the exterior through a volcano. When magma erupts through the surface of the Earth, it is called **lava**.



Measures to control catastrophic damage

- **Prediction** includes studying the probability of damage by earthquakes and volcanoes.
- **Preparedness** includes the safety measures adopted to minimize damages in the event of a disaster.

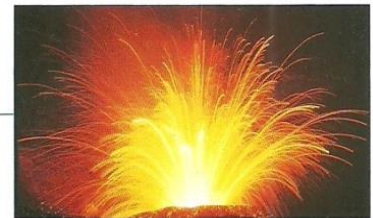


Plate tectonics theory

- The lithosphere is divided into rigid fragments called **tectonic plates**.
- The Earth's interior is at a very high temperature and, as a result, the materials in the mantle are subject to **convection currents**.
- These convection currents move the tectonic plates located above them.
- The movement of the plates causes **earthquakes, separation and coming together of continents** and other more complex processes that give rise to **high mountain ranges**, like the Himalayas, the Andes and the Pyrenees.

