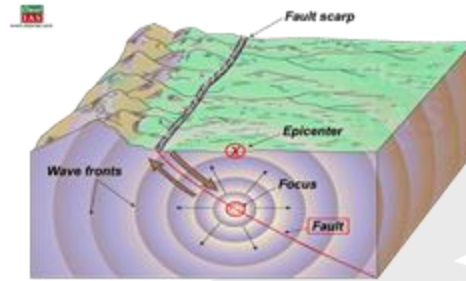


Geography - Plates, Puddles and Panic

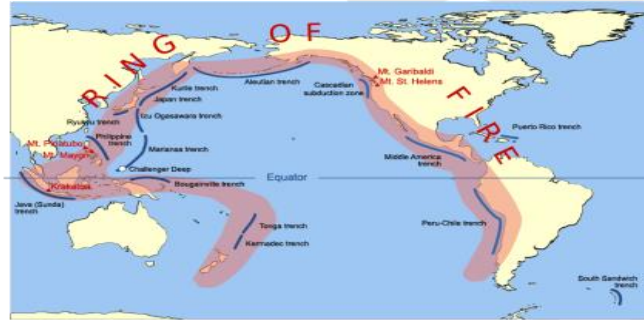
Key Vocabulary

Earthquakes	Sudden and violent of the ground
Tsunamis	A series of large ocean waves caused by in natural disaster
Earth's crust	The outermost layer of Earth
Tectonic plates	A massive, irregularly shapes slab of solid rock that makes up the Earth's lithosphere.



Earthquakes

An earthquake is when the ground shakes because of sudden movements deep under the Earth's surface. This happens when big pieces of the Earth, called tectonic plates, move and bump into each other. The shaking can be small and hardly felt, or strong enough to cause buildings to fall down. Earthquakes can happen anywhere in the world, but some places get them more often than others.

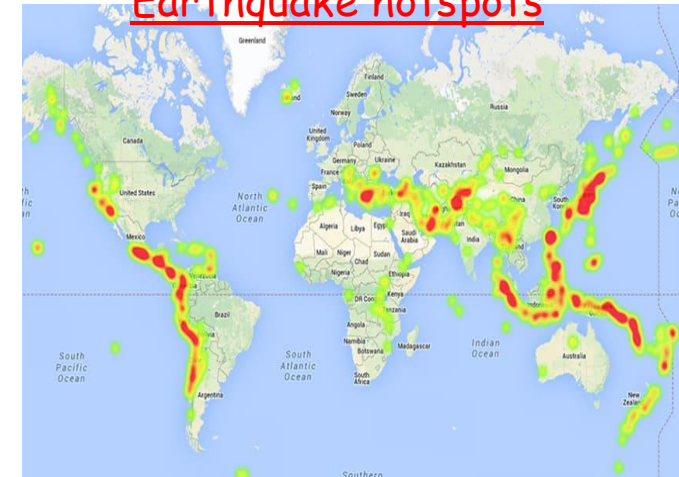


Tsunamis

A tsunami is a huge wave that is usually caused by an earthquake under the sea. When the ground shakes beneath the ocean, it pushes a large amount of water up, creating powerful waves that can travel very fast across the sea. When these waves reach land, they can flood beaches and towns, causing a lot of damage. Tsunamis can be very dangerous, but they don't happen very often.



Earthquake hotspots



Geography - Plates, Puddles and Panic

Turkey earthquake, 2023



- **Date:** February 6, 2023
- **Magnitude:** 7.8 (main quake), 7.7 (aftershock)
- **Epicenter:** Near Gaziantep, Turkey
- **Affected Areas:** Turkey and Syria
- **Damage:** Over 2 million homes affected, 51,100 confirmed deaths
- **Impact:** One of the deadliest earthquakes in Turkey's history, causing widespread destruction and loss of life
- **Aftershocks:** More than 2,100 smaller earthquakes followed the main quakes

Honshu, 2011

- **Date and Time:** The earthquake occurred on **March 11, 2011**, at **2:46 PM** local time.
- **Magnitude:** It was the strongest earthquake ever recorded in Japan, with a magnitude of 9.0.2
- **Epicenter:** The epicenter was located approximately 80 miles (130km) east of Sendai, at a depth of about 18.6 miles (30km) below the ocean floor.
- **Causalities:** The disaster resulted in approximately 18,500 confirmed death and more missing, with estimates suggesting the total could exceed 20,000. Most fatalities were due to drowning from the tsunami waves.

