

<u>cwk</u> <u>Earthquakes</u> <u>date</u> Starter: Think Pair Share

Are all earthquakes the same?

Which Earthquakes are more dangerous?

Do they occur everywhere?

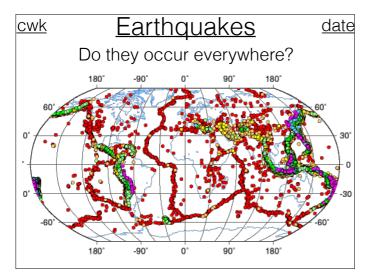
cwkEarthquakesdateWe have millions of Earthquakes around
the world every year but most are not even
felt by people.outputWe use sensitive equipment called
seismometers which produce
seismographs to detect theseoutput

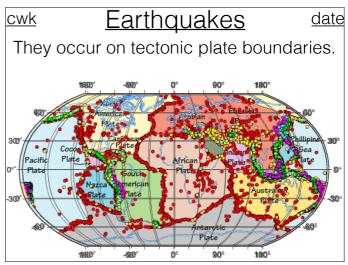
Earthquakes.





The Richter scale					
Magnitude	Description	What it feels like	Frequency		
Less than 2.0	Micro	Normally only recorded by seismographs. Most people cannot feel them.	Millions per year.		
2.0-2.9	Minor	A few people feel them. No building damage.	Over 1 million per year.		
3.0-3.9	Minor	Some people feel them. Objects inside can be seen shaking.	Over 100,000 per year.		
4.0-4.9	Light	Most people feel it. Indoor objects shake or fall to floor.	10,000 to 15,000 per year.		
5.0-5.9	Moderate	Can damage or destroy buildings not designed to withstand earthquakes. Everyone feels it.	1,000 to 1,500 per year.		
6.0-6.9	Strong	Wide spread shaking far from epicenter. Damages buildings. 100 to 150 per year.			
7.0-7.9	Major	Wide spread damage in most areas.	10 to 20 per year.		
8.0-8.9	Great	Wide spread damage in large areas.	About 1 per year.		
9.0-9.9	Great	Severe damage to most buildings. 1 per 5-50 years.			
10.0 or over	Massive	Never Recorded.	Never recorded.		





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Why might Earthquakes be difficult to predict? Earthquakes are caused by sudden movements of the Earths tectonic plates.			Wh	hy are the effects of the Earthquake or people who live there?	٦
Tectonic plates are moving but friction stops them from moving all the time so pressure builds up until the force is bigger than the friction and then they move suddenly.					
	It causes an earthquake. Tectonic pla It all for years then move a few meter seconds.				

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If earthquakes are so destructive why don't people evacuate everyone there is a mild tremor?	Scientists don't know exactly where earthquakes are going to happen.
	Scientists don't know exactly when earthquakes are going to happen.
	Scientists don't know how strong earthquakes are going to be.
	Evacuation is very expensive.