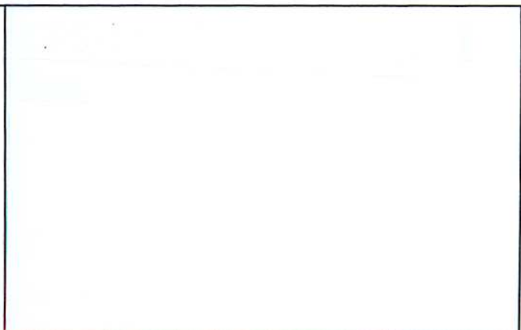



# Theory of Plate Tectonics

## Evidence Chart

What did we observe about Earth's surface today?	How were those observations made by scientists?	What can we learn from those observations?
We saw mountains, valleys, and oceans.		
Sometimes the ground shakes.		
We saw damaged buildings and roads.		
Locations of earthquakes and volcanic eruptions.		
Land moves slowly.		
Locations of fossils on several continents.		
Locations of types of rock on several continents.		
Earth gets hot as you go into the crust.		
There are no S waves in some places on the opposite side of the world from an earthquake focus.		
Some plates slowly move away from each other; There are fissures, volcanoes, and earthquakes where this happens.		
Some plates slowly move towards each other; There are mountains and earthquakes where this happens if both plates are continental crust		

<p>Some plates slowly move towards each other; There are mountains, volcanoes, deep trenches, and earthquakes where this happens if the plates are both oceanic or if one is oceanic and one is continental</p>		
<p>Some plates slide sideways past each other. This can produce earthquakes <i>and mountains</i>.</p>	