	<u>tes: Earthquakes</u>	Name:	
I. A	I. An earthquake is		
	A. Earthquakes can be caused by: 1. 2.		
	3 built up along boundaries		
	4 built up along boundaries		
II.	A fault is		
		n moving, so strain builds up. The rock deforms. nat the rock moves, and returns to normal shape. This	
III.	: the point at which the rock first breaks and moves in an earthquake. Below the surface (Remember: "Deep in Focus")		
	: the point on the earth's surfa	ace directly above the focus.	
	Seismic Waves A. The energy released in an earthquake travels in w	aves. There are three types of seismic waves:	
	Primary Waves		
	→ Called		
	→ Compression waves squeeze and stretch rock	This wave is moving in this direction ————————————————————————————————————	
	→ Can travel through any material		
	→ Travel the	Compression Rarefaction	
VI.	Secondary Waves	_	
	→		
	→	S-wave	
	→ Can travel only through (not through liquids or gasses) → Travel a little more than	Double Angillade Wasvelength Direction of wave propagation	

VII. Surface Waves

	→ Seismic waves that	Surface waves Love wave
	→ When P and S waves reach the surface they make	
	→ Two types:	Rayleigh wave
	→	Direction of wave propagation
	I. Locating Earthquakes smograph:	
Seis	smogram:	
_	P S O Amplitude = 23 mm O 10 20 S - P = 24 seconds	Triangulation: Using the
<u>T</u>]	he S-P Time Interval is the	proximate Charleston, SC
	Because P waves and S waves travel at different speeds etermine the DISTANCE away an earthquake occurred.	, the difference in their arrival times can be used
IX.	Earthquake Magnitude:	
Eac	asured by the by the increase in number represents 10X (ten times) an incomple:	
<u>X. 1</u>	Earthquake Hazards:	
<u>Fir</u>	<u>e:</u>	
Ma	ny utility lines and roads get damaged.	
<u>Liq</u>	uefaction:	
	namis:	
Are	e caused by tha	it make a big wave.