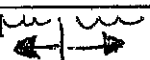
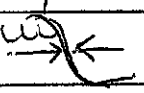
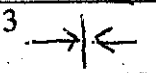
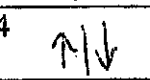
Earthquake Power Point Notes

1. There are four plate boundary simulations that you are able to model on the web site. For each one, fill in the chart below.

Simulation	Type of Boundary	Type of Plates Involved	Resulting Landform/Natural Disaster
1 	Divergent	O-O	mid-ocean ridges
2 	(subduction) Convergent	O-C	volcanoes? trenches
3 	Covergent	C-C	mountains
4 	transform	C-C	fault

2. Looking at the diagram of the plate movement causing the 1989 quake, what type of transform boundary caused this quake?

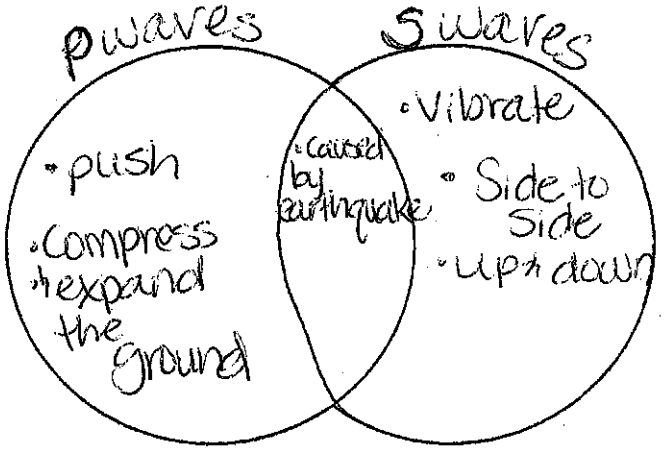
   Strike Slip boundary

3. Choose 3 Earthquake photos and describe the type of damage you see.
   - Photo 1: Crack in road caused by earthquake
   - Photo 2: Freeway collapses, supports gave way.
   - Photo 3: House shook off foundation, destroyed. → Landslides

4. Fill in the chart with the definitions for each of the terms:

Term	Description
Focus	The starting point of an Earthquake below the ground.
Epicenter	The area directly above the focus on land. Strongest point.
Seismograph	measures earthquakes. waves make drum vibrate - pen stays in place.
Seismogram	the printout from seismograph that determines earthquake strength
Richter Scale	measures size of earthquake. Scale 1-10 Each step is 10-fold increase in quake size.
Mercalli Scale	measures earthquakes effects. Scale 1-12. determined by scientists surveying damage.
Moment Magnitude Scale	current scale being used, more precise. calculated by multiplying the area of the fault's rupture surface by the distance the earth moves along fault.

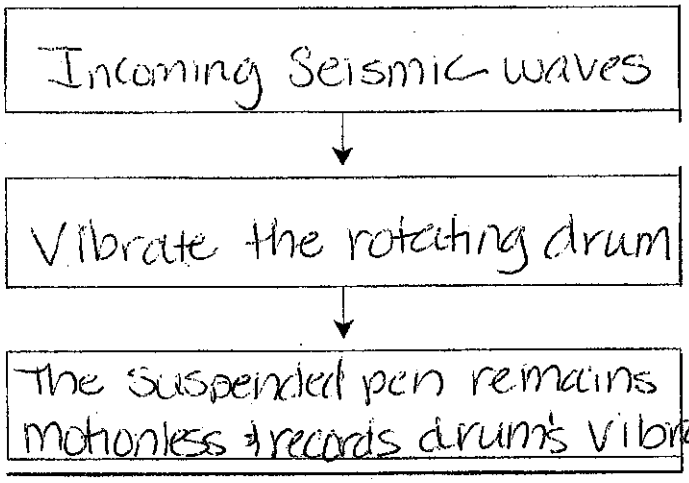
8. After viewing the simulations, complete the venn diagram for earthquake P and S waves.



9. Define Surface Waves:

produce the most severe ground movement.

10. How a Seismograph Works!



11. Why do Tsunami's occur?

Seismic waves from earthquake, underwater.

12. List three ways to protect a building from earthquake damage. (discovery.com)

- remove heavy items off walls & moves beds away from windows.
- use plywood panels to strengthen the wall.
- use metal connectors to strengthen house frame.
- Bolt house to concrete foundations.
- Strap bookcases & tall dressers to wall.