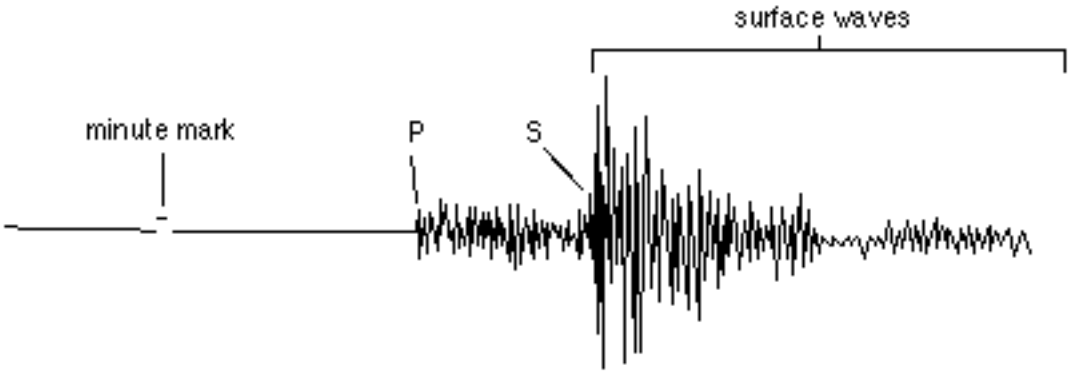
BUILD A SEISMOGRAPH



YOUR MISSION: to build a device that will measure the motion caused by a simulated earthquake.

REQUIREMENTS:

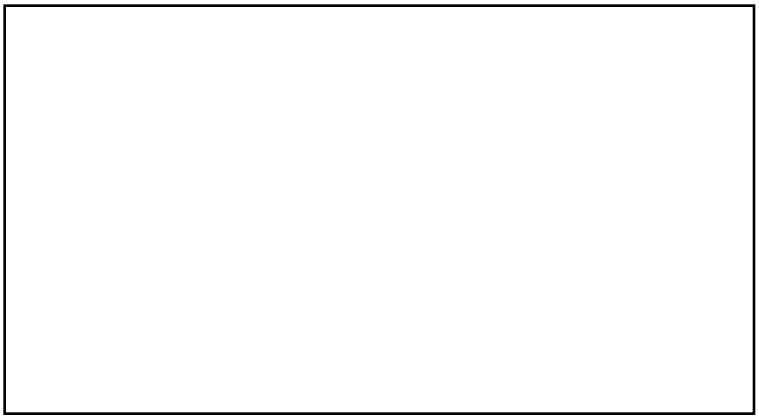
1. a **sketch** of your device, a **name** for it, and a **plan** to build it
2. a **scale** for how your device measures motion, either by recording the strength of the "earthquake," as in Richter, or the amount of damage caused by the "earthquake," as in Mercalli.
3. an **explanation** of how it works to measure the motion caused by an earthquake
4. a **conclusion**. Did it work? What was the measurement of the earthquake, according to your scale? What does that measurement mean on your scale?
5. a quick **presentation** to the class of your seismograph and results.

YOUR PLAN:

Name your Seismograph:_____

(Hint: the name must relate to the function or structure of the seismograph!)

YOUR SCALE:
(Hint: the scale must have at least 5 numbers on it. It must relate to either Richter or Mercalli.)



HOW IT WORKS:

CONCLUSION:

1. Did it work?

   If yes, why?

   If no, why not?

2. What was the measurement according to your scale? _____

3. What does that measurement mean on your scale?

4. Did the measurement match the actual reality of the earthquake?

   If not, how would you adjust your scale to match reality?

YOUR PRESENTATION:

Be sure everybody says at least one thing! Assign who says what by putting names in front of the sections on this paper.