

Saturday, March 26 – Earthquakes and Seismology

Preparation:

You will need:

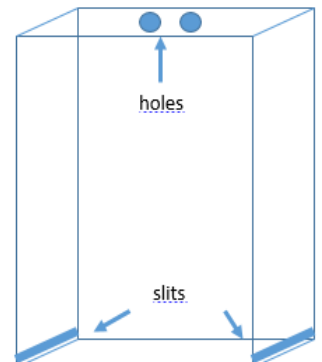
- several sheets of paper or a couple of long grocery receipts
- one (1) shoebox (or similar box with enough room for your cup)
- one (1) small or medium-sized paper cup
- string
- markers
- pen or pencil
- scissors
- tape
- small weights (rocks, coins, marbles or small objects that fit into your cup)
- Help from an adult (for help in cutting the box and more hands for experiments)

**If possible, prepare the following materials before the workshop:*

1. Prepare the **paper strip**: take several sheets of paper and fold them lengthwise to make several long sections about 70 cm wide (for 8.5 x 11-inch regular paper sheets, this will make three (3) 70 cm width sections). Cut along the folds so that you have several long strips of paper. Tape the sheets together on the short ends to create one very long strip of paper that can slide smoothly across the bottom of the box (If you have a long printed receipt, you can skip this step).



2. Prepare the **box**: carefully use your scissors to cut the flaps off of one side of the cardboard box. Stand the box up on one of the shorter sides – so that the long side is vertical (refer to the diagram above). Carefully cut slits on each side of the box where the sides meet the bottom of the box. The slits should be a bit bigger than the width of your paper strip – you can put the paper strip under the box and mark the size of the paper on the side of the box. This will allow the paper to slide through the inside of the bottom of the box (refer to the diagram above). Make two holes near the centre of the top of the box, spaced about 2 fingers width apart – a pen works well for making these holes.



3. Prepare the **cup**: carefully poke two small holes opposite one another, just under the rim of the cup – a pen works well for this. Use the pen to poke another hole in the centre of the bottom of the paper cup. This needs to be big enough to fit your marker into, with the felt tip facing down out of the bottom of the cup.

