

Name: \_\_\_\_\_

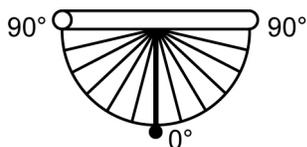
Date: \_\_\_\_\_

## Making a Clinometer

In this activity, you will build a clinometer, a device that will allow you to measure angles and calculate the heights of various objects.

### Materials

- protractor
- drinking straw
- a semi-circle of cardboard
- tape
- string
- weight (e.g., several paper clips)



### Procedure

1. Draw a baseline along the bottom edge of the cardboard, and mark the centre.
2. Use a protractor to mark the cardboard into degrees from  $90^\circ$  to  $0^\circ$  to  $90^\circ$  with zero at the bottom of the curve (see diagram). Make sure that the centre of the protractor meets the centre of the cardboard.
3. Tape the straw along the straight edge (top) of the semicircle.
4. Tape the string to the centre of the straight edge of the semicircle. Attach a weight to the string.