You will measure three different areas of your yard, neighborhood, or near by park and determine their slope. Based on the slope calculated, you can determine the category of land what the land should be used for. Complete the sheet provided and follow the directions below.

# Materials needed:

* 1 board, 2x4, broom handle, yard stick or other straight object
* A measuring tape
* A level or level app on your cell phone

1. Start by measuring the length of the board provided. Our board length is: .
   1. **This number will be your “distance” part of the formula for each calculation!**
2. Next, lay your board flat on the ground.
3. Place the level (use the level app in your cell phone if you do not have a traditional level at home) on top of the board and lift the “down-hill” end of the board until it is level (using the level bubble).
4. Measure the distance from the ground to the bottom of the end of the board raised in the air.
   1. Fill this number in to the table below.
5. Calculate percentage slope for each measurement.
6. Repeat this process three times at each slope location, filling in the table as you go.
7. Once you have measured three time at a given location, take an average of your three slope percentages.
8. Categorize the slope of each location according to the average percentage.

# Need help? Use this site:

<https://openoregon.pressbooks.pub/forestmeasurements/chapter/1-1-assessing-slope-of-the-land/>

# Slope Categories:

* + Nearly Level: 0-2%
  + Very Gently: 2-5%
  + Gentle: 5.1-8%
  + Sloping: 8.1-12%
  + Strongly Sloping: 12.1-17%
  + Steep : over 17.1%

| **Location** | **Distance\*** | **Change in Elevation\*** | **Percentage Slope** | **Location Average** | **Slope Category** |
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\*be sure to write your unit of measurement for these columns!