

Clinometer Use : Field Worksheet



Name: _____

Class: _____

Date: _____

1. Make your clinometer. Your teacher has the supplies and will help you out. If you used a folded piece of paper, you made a Type 1 clinometer. If you used a protractor, you made a Type 2 clinometer.

2. Use your tape measure, and record your height, up to your eyeballs. This gives you your eye level height:

Eye-Level Height: _____ cm (_____ m)

3. Go outside and find something you want to know the height of. Possibilities include trees, your school building, the flagpole, a schoolbus, etc. Just make sure that it's quite a bit taller than you!

Object 1 Name: _____

4. Look through your clinometer at the top of the object. Holding the clinometer steady, remove your eye from the straw and see where the string is falling. Does it line up with a 45° angle on your protractor (Type 2) or line up exactly with the edge of your paper (Type 1)? If not, move closer or farther away from the object until your clinometer reads 45° or lines up with your paper.

5. From that spot (where the clinometer reads 45°), measure the distance to the base of the object.

Distance from Object 1 to 45° Spot: _____ m

6. Now add your Eye-Level Height to that distance, and you will get the height of the object:

Object 1 Height: _____

7. Do this for two more objects:

Object 2 Name: _____

Object 3 Name: _____

Distance to 45° Spot: _____ m

Distance to 45° Spot: _____ m

Object 2 Height: _____

Object 3 Height: _____