

EXPERIMENT 6

CLINOMETER

Let's measure angles and estimate the slope or height of something!



6 - CLINOMETER



SUPPLIES NEEDED

- Craft Mat
- Tape
- Protractor
- String
- 1 Clear Straw
- Binder Clip



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STEP 1

Place your protractor flat on the craft mat.

STEP 2

Tape the clear straw along the straight edge of the protractor.

This is what you will look through.

STEP 3

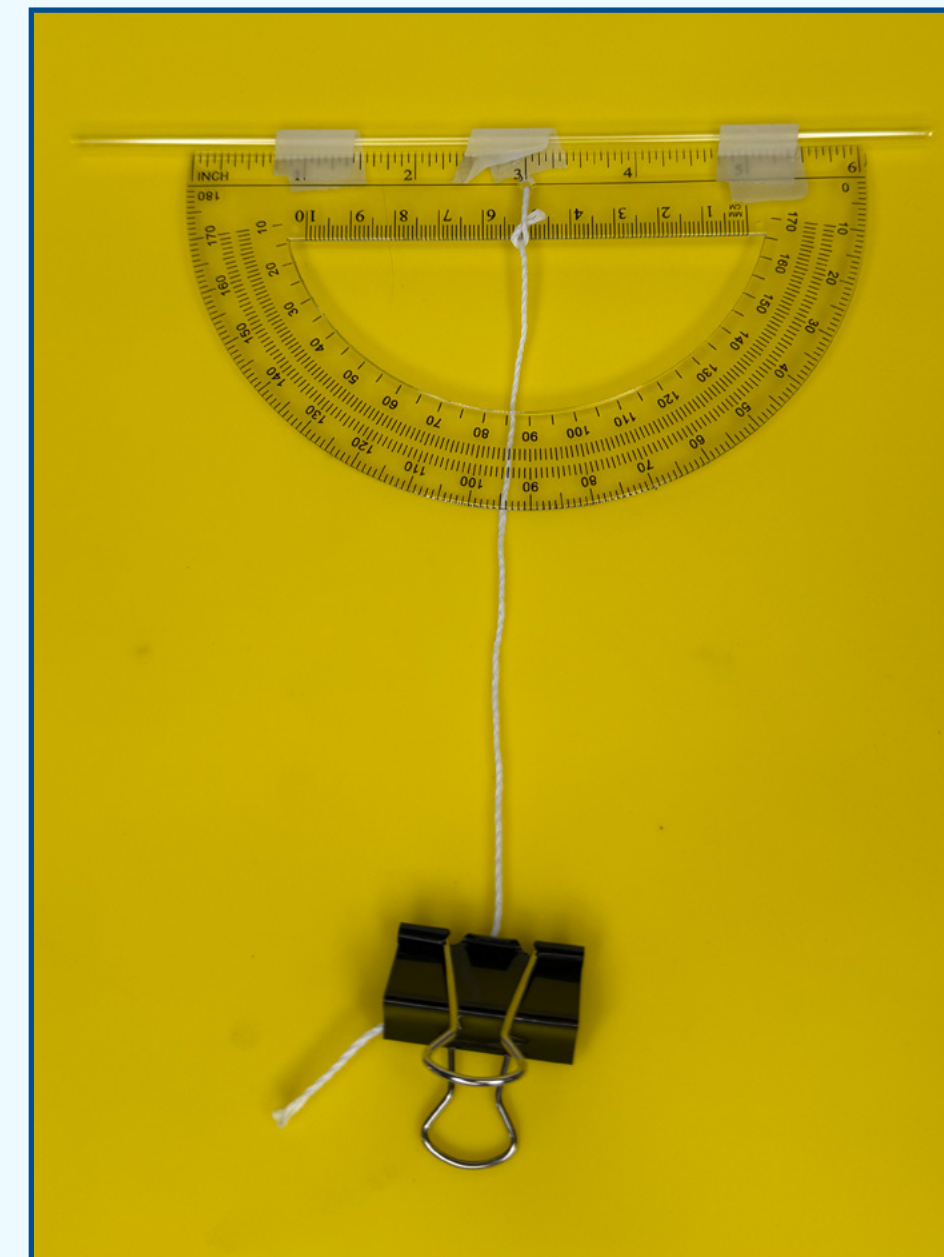
Tie one end of the string through the small hole in the middle of the protractor.



STEP 4

Attach the binder clip to the bottom end of the string.

This acts like a weight.



STEP 5

Hold the clinometer so the straw is level with your eye.

Look through the straw at the top of a tree, building, or wall.

Keep the clinometer steady and let the string hang straight down.

Read the number where the string crosses the protractor.

That is the angle.

Compare angles from different objects or from different distances.



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WHAT TO WATCH FOR

A taller object usually gives a bigger angle if you are standing close.

A steeper hill or slope means water will move faster downhill.

WHY IT MATTERS

Scientists use tools like this to understand slope, and slope helps predict:

- runoff speed
- erosion
- flooding
- where pollution may travel

Let's see what happens when we have:

- gentle slope
- steep slope

Which one would flood faster?

LOCATION	ANGLE	WOULD WATER FLOW FAST OR SLOW?

