## GLOBE Trees

Measuring tree height is just one way that scientists study the health of forests and ecosystems around the world. Give it a try using this paper clinometer.


## Constructing the Clinometer



1. Pull a knotted string through the circle in the upper right corner of the clinometer.
2. Attach a weight (like a paper clip or washer) to the bottom of the string.
3. Tape your straw to the top of the page.
4. Clip to a clipboard or hold against a hard surface like a book or piece of cardboard.

## Using the Clinometer

1. Find a tree on level ground that is at least 15 ft . tall. Stand where you can clearly see the base and the top.
2. Look at the top of the tree through the drinking straw.
3. Use the clinometer to measure the angle at which you are looking at the tree. It helps to have a friend tell you where the string crosses the arc.
4. Walk to the base of the tree, counting your steps.

Your Height


Your Height
Step Length

Eye Height
in. $-4=\quad$ in.

Step Length
Distance from Tree


Tree Height
Tree Height

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\mathrm{in} .12=\square \mathrm{ft}
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