



Make a height measuring clinometer!

1. Cut out a protractor shape from cardboard and write on the degrees as shown.
2. Make a hole in the middle, thread a string through and clip a peg on the end.
3. Find a tall tree to measure in a park, point the yellow arrow on your clinometer at the very top of the tree – ask an adult to read which angle the string is hanging closest to whilst you aim.
4. Walk either backwards or forwards until the yellow arrow on your clinometer is pointing at the top of the tree and the string is hanging on the 45 degree line. Stop and mark the spot!
5. The distance from where you're standing to the base of the tree is the same as its height! Measure the distance in steps or with a tape measure, and add your height to work out the actual height of the tree.