



Stretching Sweets:

Carrying Out the Experiment



1

Get a teacher to check your stand is securely clamped before you start.



2

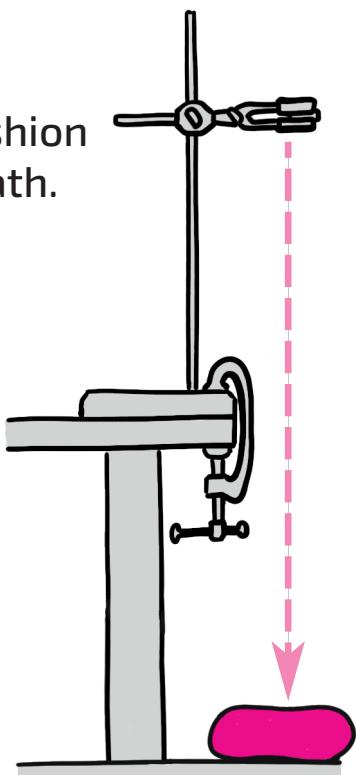
Knot two laces together at both ends.



(a) (b) (c) (d)

3

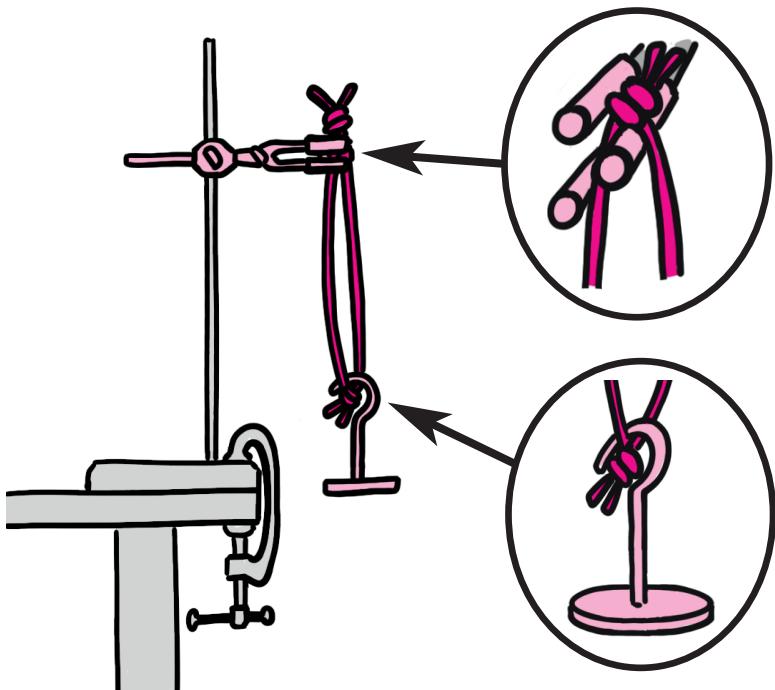
Place cushion underneath.



4

Loop one end of the laces over a single "finger" on the arm.

Hook the 10 g mass holder over the other end of the laces.



You have finished setting up, and are now ready to carry out the experiment.

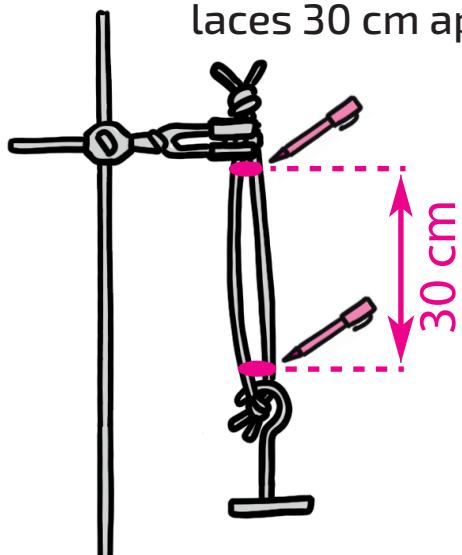


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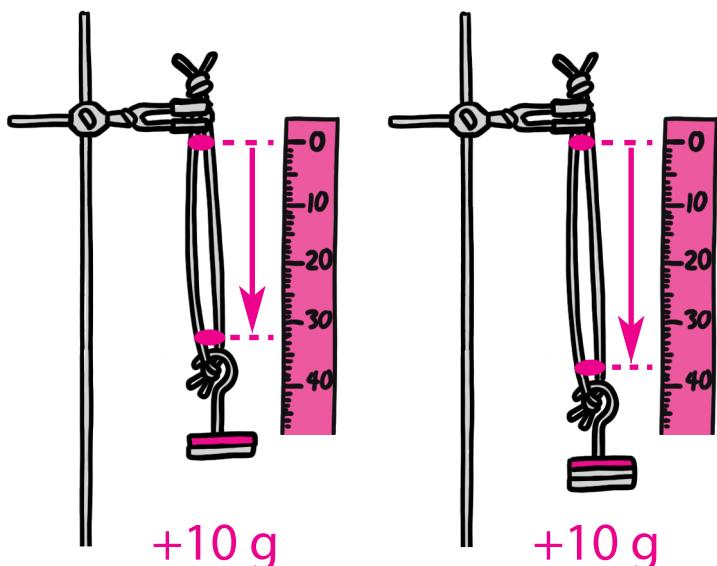
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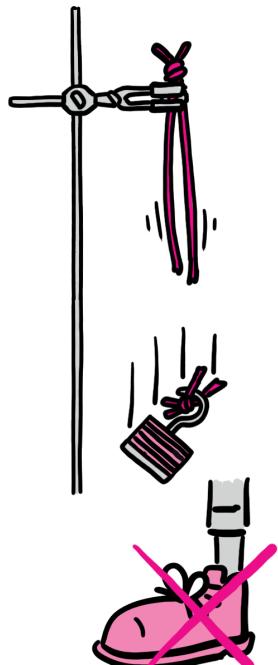
- 5** With a pen, make marks across the laces 30 cm apart.



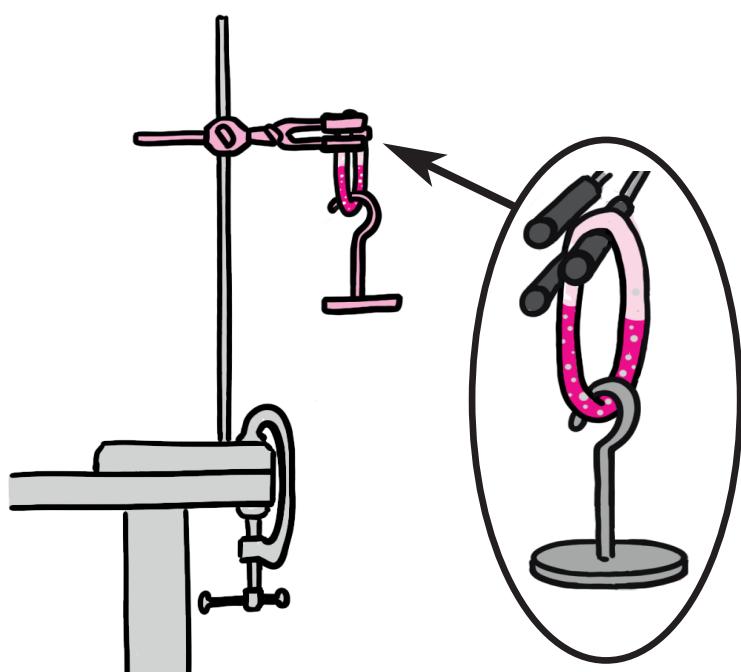
- 6** Gently add 10 g masses one at a time, and record the new length between marks.



- 7** Add masses and make measurements until the laces break.



- 8** Repeat experiment for an apple ring.
- Hook apple ring over clamp.
 - Use 100 g hanger and 100 g masses.



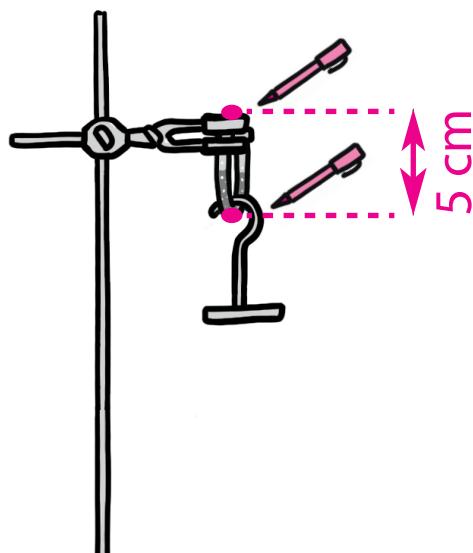


Stretching Sweets:

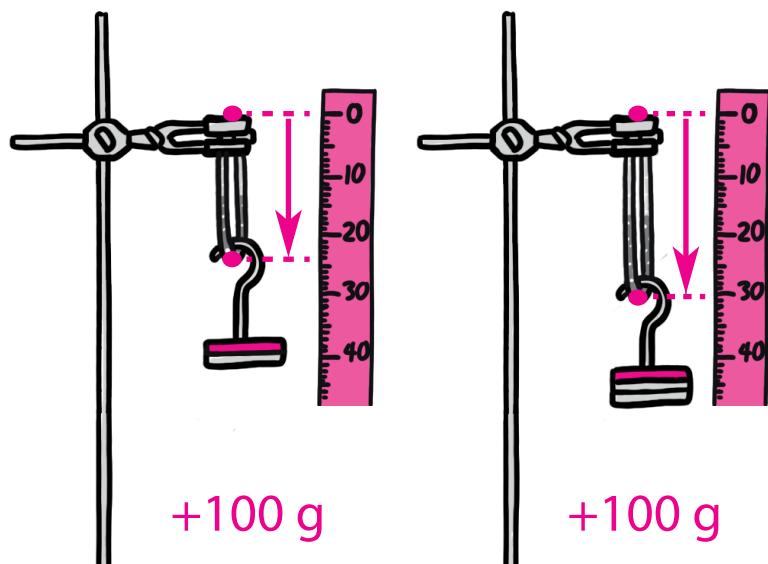
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- 9** With a pen, make marks 5 cm apart. These will probably be the top and bottom of the apple ring.

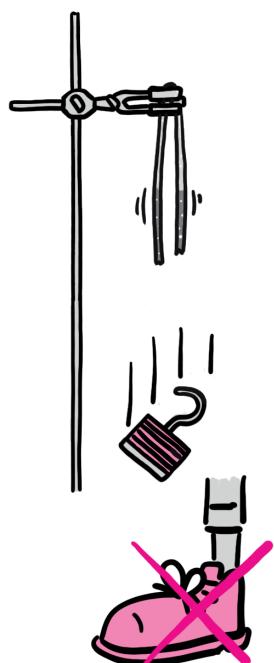


- 10** Gently add 100 g masses one at a time, and record the new length between marks.



- 11** Add masses and make measurements until the ring breaks.

Make sure your feet are not underneath!



- 12** Calculate the extension for each measurement.

Then plot a graph of extension against weight for each type of sweet.

