

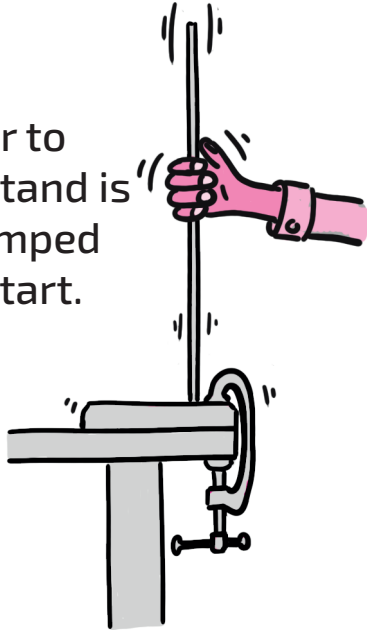
# Stretching Sweets:

## Carrying Out the Experiment



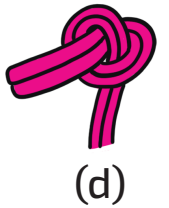
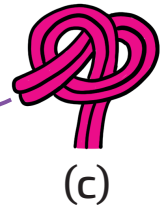
1

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



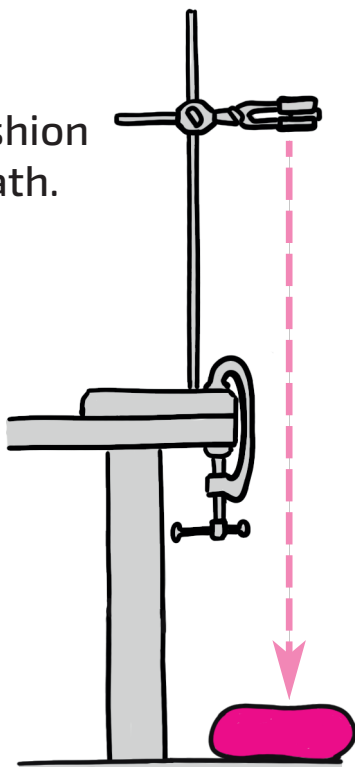
2

Knot two laces together at both ends.



3

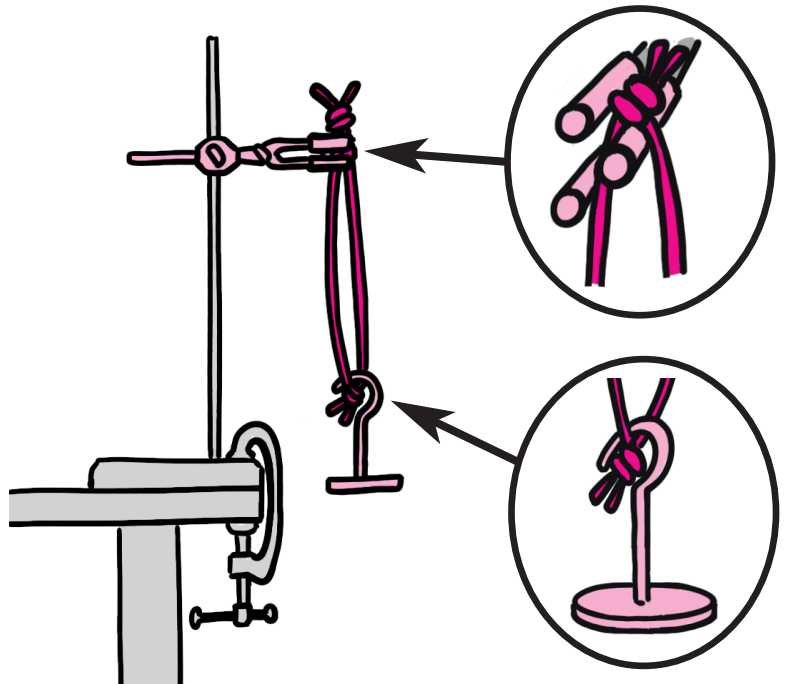
Place cushion underneath.



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.**

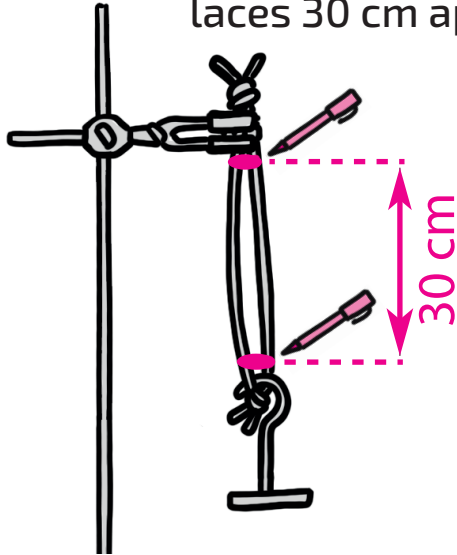
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## Carrying Out the Experiment



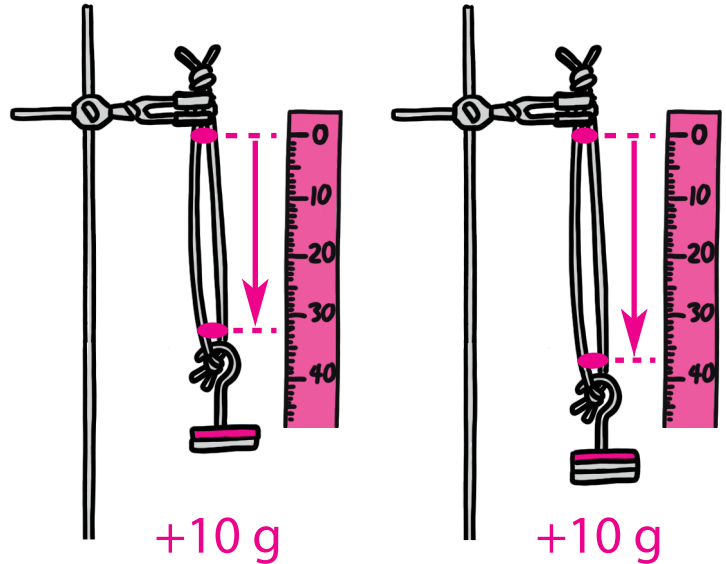
5

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



6

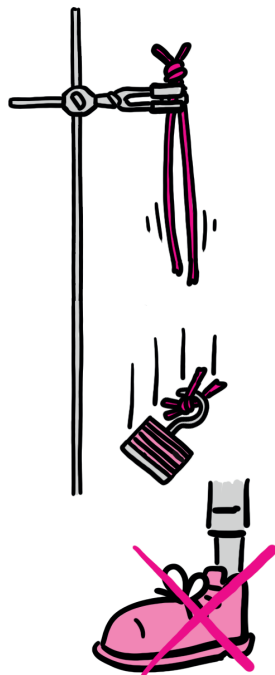
**Gently** add 10 g masses one at a time, and record the new length between marks.



7

Add masses and make measurements until the laces break.

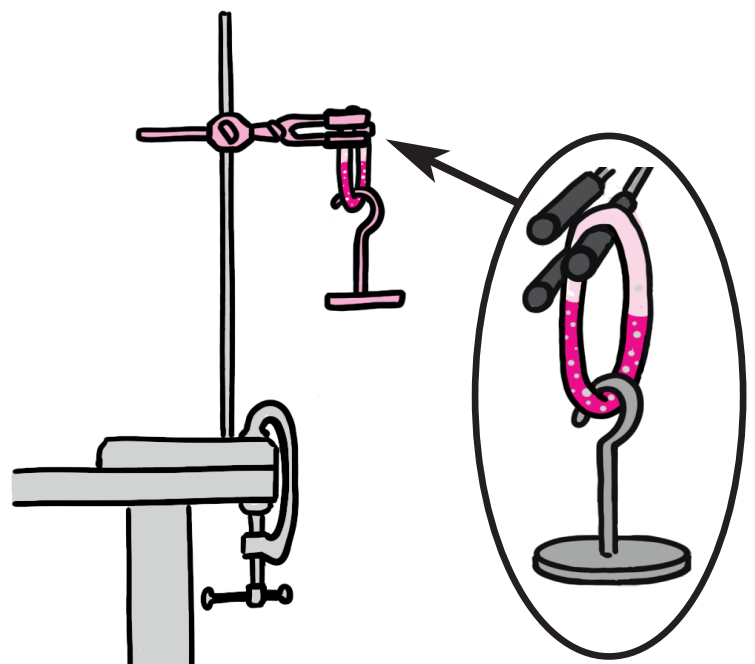
**Make sure your feet are not underneath!**



8

Repeat experiment for an apple ring.

- Hook apple ring over clamp.
- Use 100 g hanger and 100 g masses.

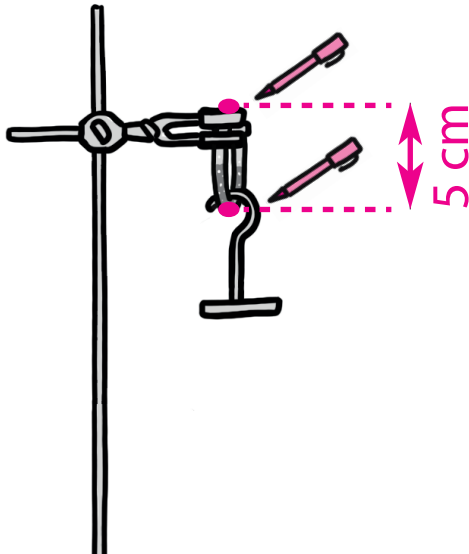


# Stretching Sweets:

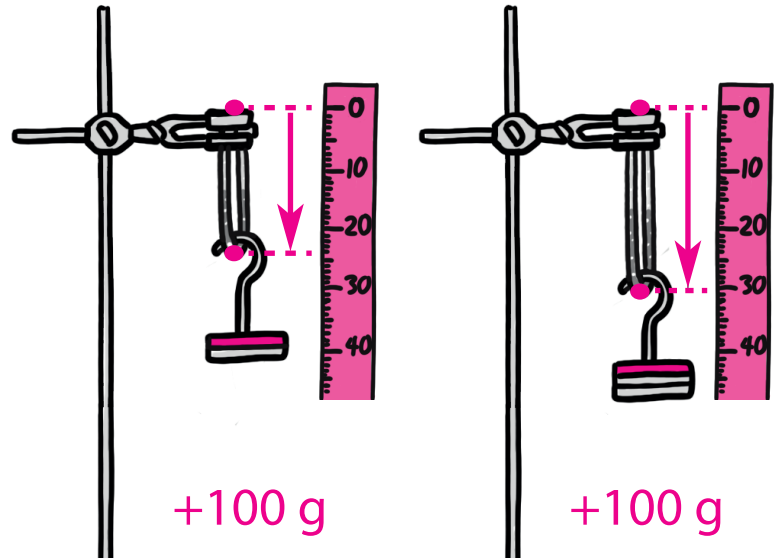
## Carrying Out the Experiment



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

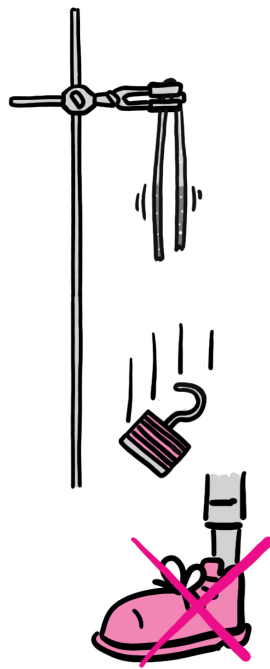


- 10** **Gently** add 100 g masses one at a time, and record the new length between marks.



- 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.

