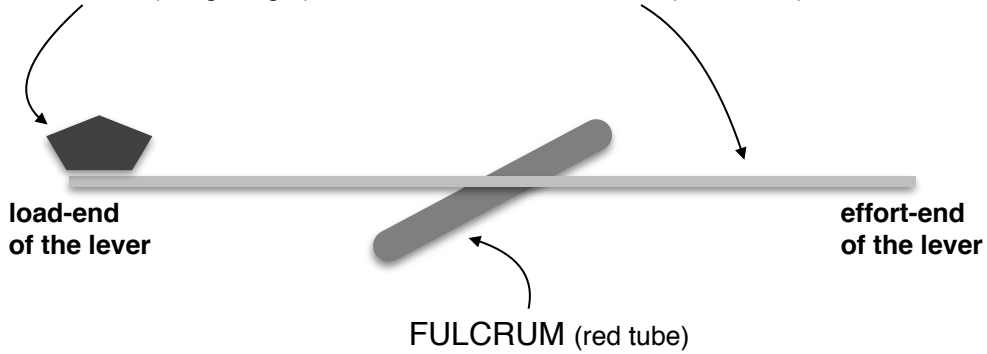


Levers: trading force over distance

Setting up

- Tape the **LOAD** (500g weight) to an end of the **LEVER** (metre rule).



- Position the effort-end of the lever to be just level with the edge of the desk.
- Tape a spring scale to the effort-end of the lever, so that it can be pulled downwards to measure the effort in g.

Data collection

For different positions of the fulcrum, measure:

- The effort required to lift the load (in g, using the spring scale)
- The distance the load is raised by (in cm, using a ruler)

Draw the lever showing fulcrum position	Effort to pull the lever down (g)	Distance the load is raised by (cm)

Graph effort against distance

