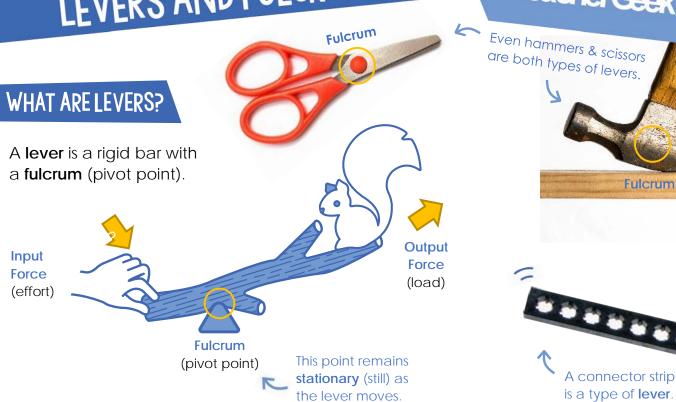
TIPS & TRICKS FOR LEVERS AND FULCRUMS

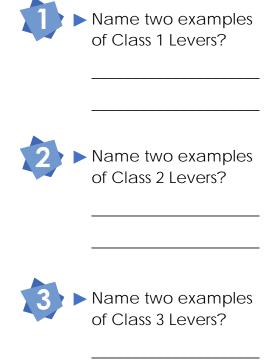




CLASSES OF LEVERS

A lever's class depends on where the **input force** (the effort) & **output force** (the load) are in relation to the **fulcrum** (pivot point).

The Three Classes of Levers				
Class 1 Lever	Fulcrum is between load and effort. • seesaw, bat, gear	Output Force		
Class 2 Lever	Load is between effort and fulcrum. • wheelbarrow, stapler	Input Force Fulcrum		
Class 3 Lever	Effort is between load and fulcrum. In the fishing rod, pulley	Input Force Output Force		



TIPS & TRICKS FOR LEVERS AND FULCRUMS

Teacher Geek A force is a push or a pull that

changes the motion of an object.

WHAT IS MECHANICAL ADVANTAGE?

You gain a mechanical advantage when you trade **force** for **distance** or trade **distance** for **force**.

TRY IT OUT!

Grab two **connector strips** and <u>one</u> **25mm screw**. Place the screw in various holes as the **fulcrum**.



Attach your two connector strips together with the screw 5 holes in.
Open & close this small handle. Label the size (big or tiny or none) and direction (arrow) of the input force (effort) and output force (load) below.

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Small Handle	•

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Attach your two connector strips together with the screw halfway.

Open & close this gripper. Label the size (big or tiny or none) & direction (use an arrow) of the input force (effort) and output force (load) below.





Attach your two connector strips together with the screw 5 holes in.

Open & close the longer part as the handle. Label the size (**big** or tiny or none) & direction (use an arrow) of the **input force** (effort) and **output force** (load) below.

Long	
Long Handle	