

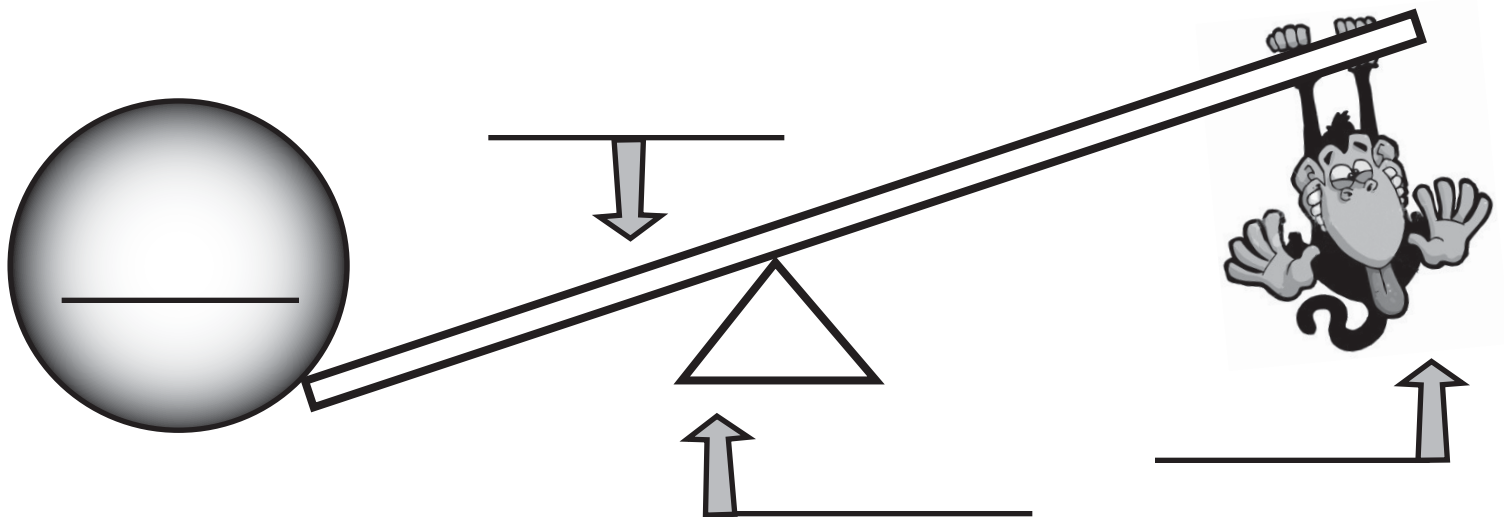
LEVERS IN ACTION

A lever is a simple machine used to increase force. Levers usually help assist in human tasks. Some levers you have seen or used before includes a fork or a spoon.

PARTS OF A LEVER

A basic lever includes the arm and the fulcrum, which is the point that the arm moves around. A lever is often used to help move a large object. The object is placed on one side of the lever and force is applied at the opposite side. The force can either be a push or pull.

Can you name all the different parts of this lever?



The Challenge

Challenge 1 : Design a hand powered catapult that can launch a LEGO brick at least 10 feet.

Challenge 2 : Can you launch a LEGO brick over 15 feet?

Challenge 3 : Who can launch a LEGO brick the furthest!

Hints & Tips

- Make sure your whole project is sturdy and strong!
- Try making your project taller.
- Engineer a longer arm and see if that affects how far the LEGO brick goes.
- Adjust the fulcrum point.
- Apply more force!