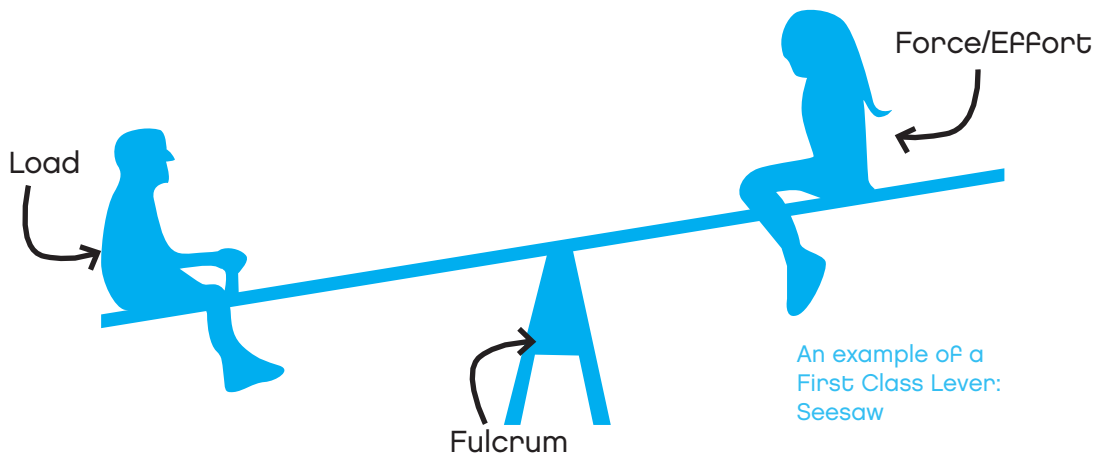


Levers

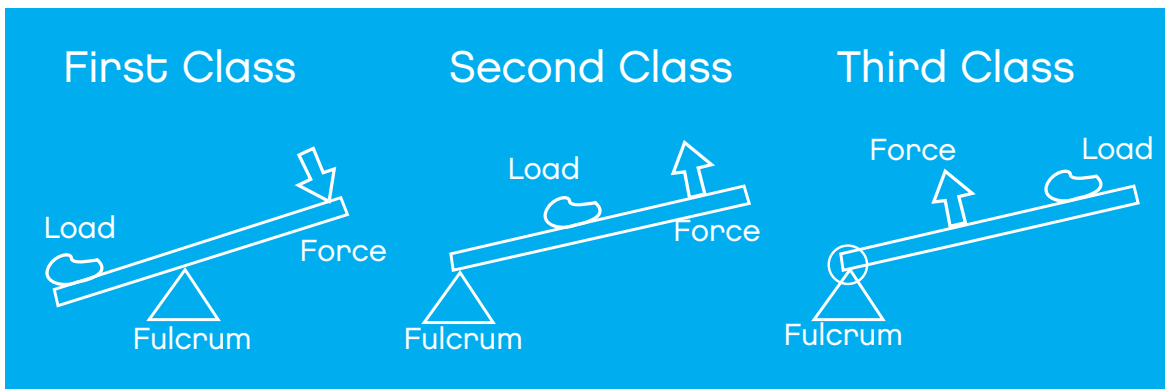
What is a Lever?



A lever is a machine in the form of a beam or a rod which has three main sections:

- a) **Fulcrum** - also called a Pivot, it is the point around which the load moves.
- b) **Load** - is the object that is being moved, lifted, launched etc.
- c) **Effort or Force** - is the force applied either manually or by means of a motor to move the load.

There are 3 kinds of Levers - First, Second and Third.



First class: The Fulcrum is in the center the load is at one end and the effort is applied at the other end. Eg: Seesaw, scissors

Second Class: The Fulcrum is at one end, the load is in the center and the effort is at the other end. Eg: Wheelbarrow.

Third Class: The Fulcrum(pivot) is at one end of the lever, the load is only applied at the opposite end and the effort to move the load is applied in between by means of a resistance of some kind - in this case rubber bands. Eg: Catapult, Human Arm, Stapler, Tongs and Tweezers.