

SIMPLE MACHINES

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What is a simple machine?

A simple machine changes the direction or size of a force. It makes it much easier to pull or push something over a longer distance.

Simple machines are tools that makes it easier to:

1. Move things
2. To do work

Different kinds of simple machines

1. Lever
2. Pulley
3. Inclined Planes
4. Wheel and Axle
5. Screws
6. Wedges

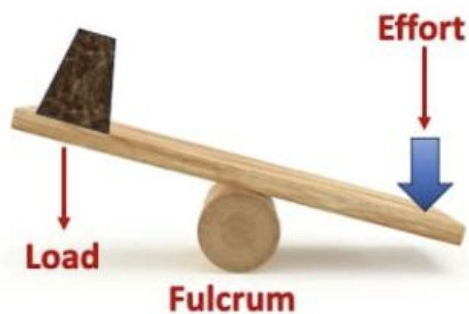
Lever

There are three types of Levers:

1. 1st Order
2. 2nd Order
3. 3rd order

There are three main parts in a lever- Load, effort and fulcrum. The order of the lever depends on the position of the Load, effort and fulcrum.

Types of Levers



Class-I or First Order Lever



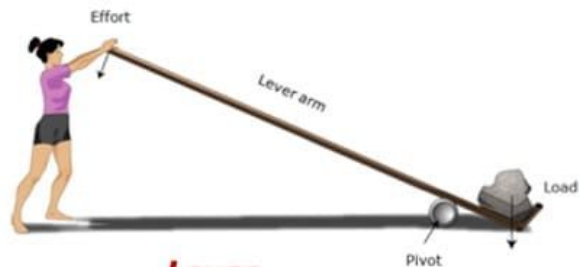
Class-III or Third Order Lever



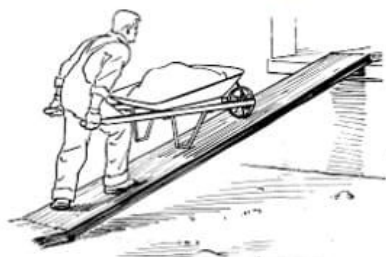
Class-II or Second Order Lever



Types of Simple Machine



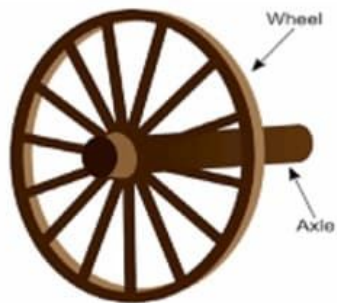
Lever



Inclined Plane



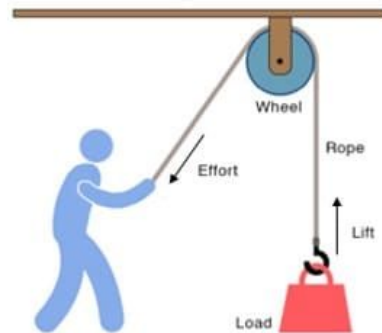
Wedge



Wheel and Axle



Screw



Pulley

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Simple Machines



Music Video

Simple Machine Dance



Now create your own simple machine dance