Levers Levers can be used to make a small force lift a larger load.

Class 1:
Class 2:


Fulcrum



Pliers


Nut-cracker
Nut-cracker

## Class 3:




Copy the diagrams and then give 3 examples of each type of lever

## Gears

Gears are wheels with teeth that slot together. When one gear is turned the other one turns as well. If the gears are of different sizes, they can be used to increase the power of a turning force. The smaller wheel turns more quickly but with less force, while the bigger one turns more slowly with more force


Cut out a large gear and a small gear (see sheet)
Try them out
What do you notice?

## Pulleys

Pulleys are made by looping a rope over one or more wheels. They are often used to lift heavy objects: pulling down on one end of the rope creates an upward pull at the other end. Looping it over more than one wheel makes it easier still.


Look at
https://www.youtube.com/watch? v=LiBcurlaqcg

What are the advantage and disadvantages of these different pulleys?


Complete the 'lever, gear or pulley' sheet

