

### What I should already know:

- Understand a force such as a pull and a push
- Understand that objects need a force to make them move
- How to identify forces acting on objects
- The effect gravity has on objects and how gravity was discovered
- The effects of air resistance, water resistance and friction between moving surfaces

### What I will learn:

- How mechanisms, including levers, pulleys and gears, allow a smaller force to have a greater effect

Pulleys	Gears/Cogs	Levers
Pulleys can be used to make a small <b>force</b> lift a heavier load. The more wheels in a pulley, the less <b>force</b> is needed to lift a <b>weight</b> .	Gears or cogs can be used to change the speed, <b>force</b> or direction of a motion. When two gears are connected, they always turn in the opposite direction to each other.	Levers can be used to make a small <b>force</b> lift a heavier load. A lever always rests on a pivot.

mechanism	pulley	force	mass	gear	axle	driver
follower	direction	turn	speed	lever	load	fulcrum