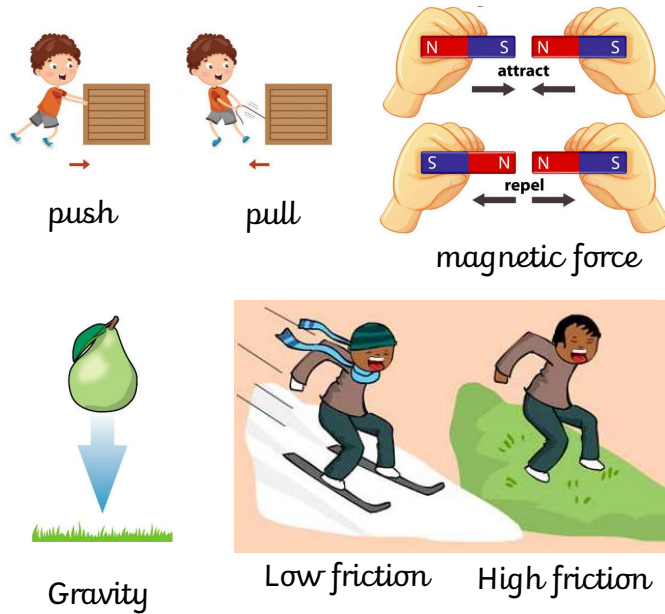


## What I already know

## Year 5 What do forces do? Knowledge organiser

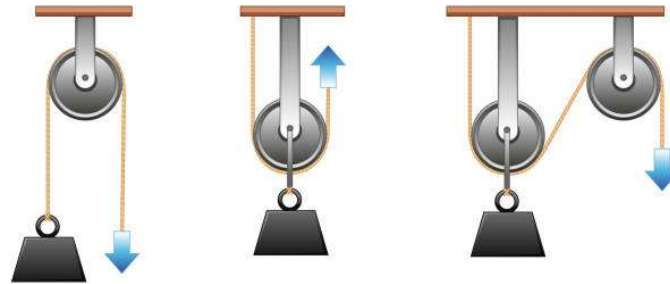
## What I will learn in this enquiry

### What is a force?

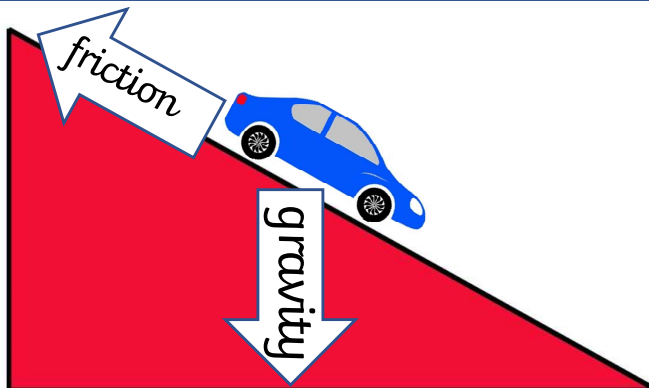


**load** - the object that needs to be moved

**effort** - the amount of force needed to move a load



**Pulleys** reduce the effort needed to lift a load.

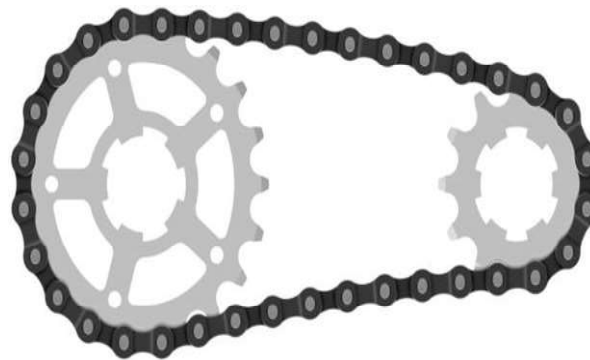


**Gravity** pulls the car downward, making it move along the ramp

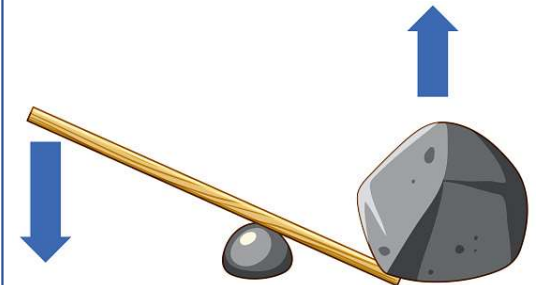
**Friction** is caused by the wheels rubbing on the surface of the ramp. Friction slows the car down.

Moves slowly,  
more force.

Moves quickly,  
less force.



**Gears** help us make a bike go faster than we could pedal.



Pushing on the long end of a **lever** reduces the effort needed to lift the load.