



## Endpoints for Science

### Year 5 – Forces and Mechanisms



We will be learning about the forces of gravity, air resistance, water resistance and friction. We will also be learning about how mechanisms can help us to change a small effect into a greater one.

#### What I know and can explain

Friction, air resistance and water resistance are forces that oppose motion and slow down moving object

A force meter can be used to measure an object's mass in grams (g) or kilograms (kg) and its weight in newtons (N)

Mass is the amount of matter that an object or substance contains

Weight is a measure of gravitational force which is different on for example Earth and the Moon

The larger the surface area of an object the greater the resistance, air or water, it will have when it moves. This will slow it down

A lever is a simple machine that provides a mechanical advantage to make it easier to lift a heavy load

A pulley is a simple machine that provides a mechanical advantage to make it easier to lift a heavy load

#### Useful Vocabulary

**Air resistance** - A frictional contact force that acts to slow an object's movement when it moves through air

**Drag** - A frictional contact force between a gas or liquid and another object

**Force** - A push or a pull that makes something move

**Gravitational force/gravity** - A non-contact pulling force between objects that have mass

**Magnetism** - The attraction and repulsion between two magnets or between a magnet and magnetic materials

**Newton (N)** - The unit used to measure weight

**Weight** - A measure of the gravitational force acting on an object