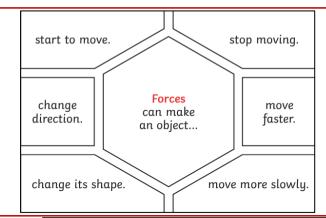
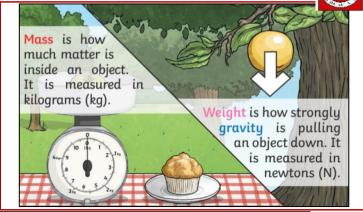


Science - Forces

Vocabulary

- Mass: A measure of how much matter (or 'stuff') is inside an object.
- Friction: A force that acts between two surfaces or objects that are moving, or trying to move, across each other.
- Air resistance: A type of friction caused by air pushing against any moving object.
- Water resistance: A type of friction caused by water pushing against any moving object.
- **Buoyancy**: An object is buoyant force lift a heavier







Water resistance and air resistance are forms of friction. Friction is sometimes helpful and sometimes unhelpful. For example, air resistance is helpful as it stops the skydiver hitting the ground at high speed. Friction on a bike chain can make the bike harder to pedal so it is unhelpful.

Pulleys can be used to make a small force lift o heavier load. The

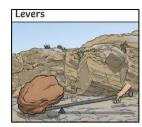


more wheels in a pulley, the less force is needed to lift a weight.



Gears or cogs can be used to change the speed, force or direction of a motion.

gears are connected, they always turn in the opposite direction to each other.



Levers can be used to make a small force lift a heavier load. A lever always rests on a pivot.