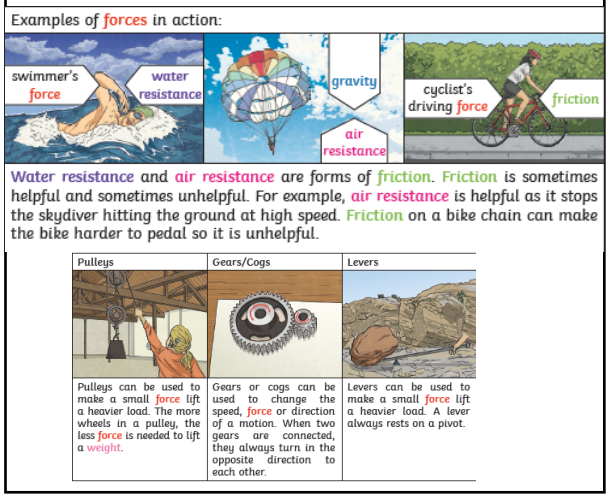
Bomere and the XI Towns Federation Knowledge Organiser—Forces

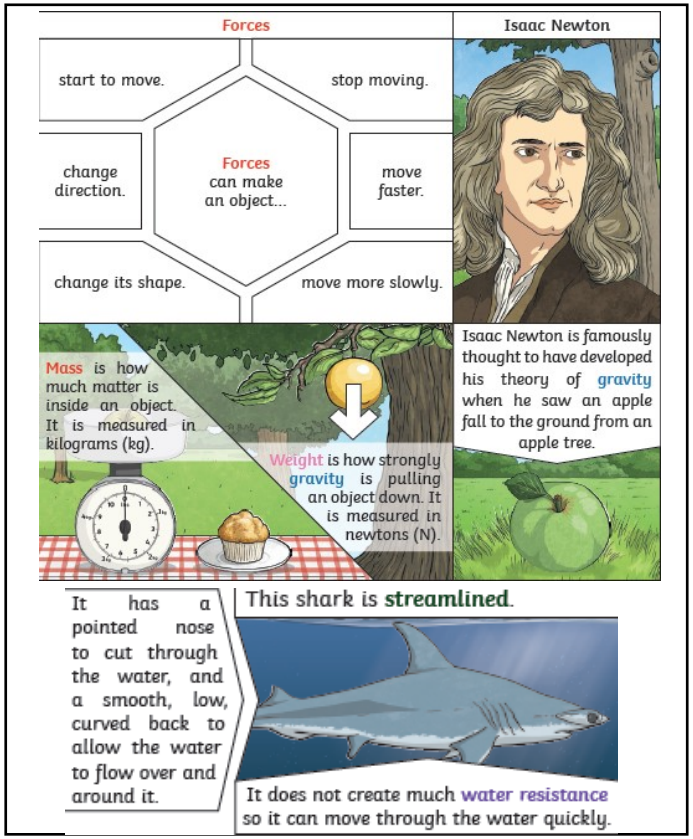
Topic:- Science—Forces	Class/Year Groups: Year 5	Term: Spring

What you already know?

Pupils studied friction in Year 3 and should know that friction is a force and that it acts against movement. They should know that forces can change the shape, speed and direction of objects.

What you will learn





Vocabulary

Forces	Pushes or pulls.
Gravity	A pulling force exerted by the Earth (or anything else which has a mass)
Friction	A force that acts between two surfaces or objects that are moving, or trying to move, across each other.
Weight	The measure of the force of gravity on an object.
Mass	A measure of how much matter (or 'stuff') is inside an object.
Earth's gravitational pull	The pull that Earth exerts on an object, pulling it towards Earth's centre. It is the Earth's gravitational pull

National Curriculum Objectives:

- Explain unsupported objects fall towards the Earth because of the force of gravity acting between the Earth and the falling object
- Identify the effects of air resistance, water resistance and friction, that act that between moving surfaces
- Recognise that some mechanisms, including levers, pulleys and gears, allow a smaller force to have a greater effect.