## Bomere and the XI Towns Federation Knowledge Organiser—Forces

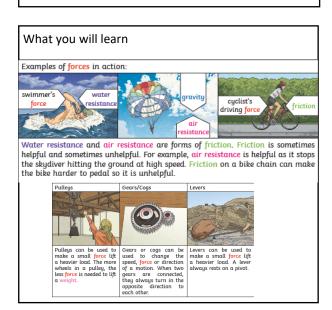
Topic:- Science—Forces

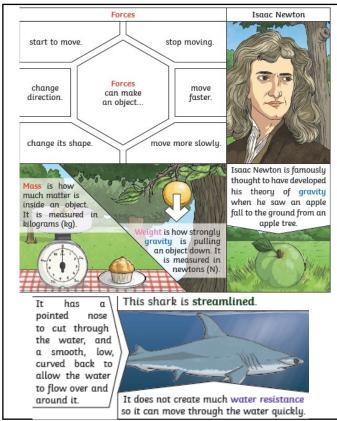
Class/Year Groups: Wrekin

Term: Summer

## 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.





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 gravitation- al pull	The pull that Earth exerts on an object, pulling it towards Earth's centre. It is the Earth's gravitational pull which keeps us on the ground.



## 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.

