Bomere and the XI Towns Federation Knowledge Organiser—Forces

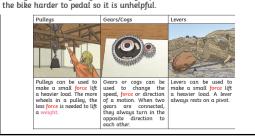
Topic:- Science—Forces

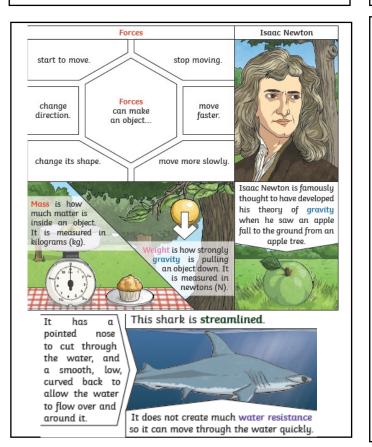
Class/Year Groups: Wrekin

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
Examples of forces in action:
swimmer's water force water resistance air resistance cyclist's driving force friction
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





Vocabulary Pushes or pulls. Forces A pulling force exerted by the Earth Gravity (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. The measure of the force of gravity Weight on an object. A measure of how much matter (or Mass 'stuff') is inside an object. Earth's gravitation-The pull that Earth exerts on an obal pull ject, pulling it towards Earth's centre. It is the Earth's gravitational pull

Term: Summer



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.

