KEY KNOWLEDGE FACT SHEET — YEAR FIVE—FORCES

OVERVIEW

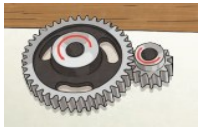
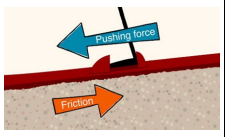
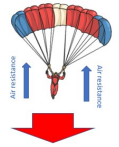
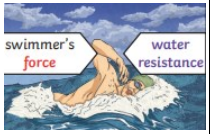
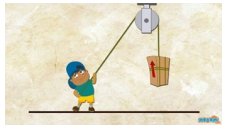
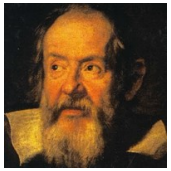
⇒ All unsupported objects fall towards the Earth because of the force of **gravity** acting between the earth and the falling object.

⇒ **Air resistance**, **water resistance** and **friction** are **forces** that act between 2 moving surfaces.

⇒ Mechanisms including **levers**, **pulleys** and **gears** allow a smaller force to have a greater effect.

⇒ **Newton** was the first scientist to explain and name **gravity**. We measure **gravity** in **Newtons** (N) after him.

⇒ **Galileo** proved that all objects fall to Earth at the same speed regardless of how much they weigh.

KEY VOCABULARY			KEY VOCABULARY		
gravity		A pulling force exerted by the Earth.	gear		Gears or cogs can be used to change the speed, force or direction of a motion.
friction		A force that acts between two surfaces.	air resistance		**Water resistance** and **air resistance** are forms of friction.
force		Pushes or pulls	water resistance		
pulley		**Pulleys** and **levers** can be used to make a small force lift a heavier load.	Newton		**Isaac Newton** developed his theory of gravity.
lever			Galileo		**Galileo** further investigated the effects of gravity.