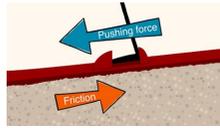
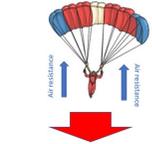


OVERVIEW

- ⇒ Building on learning from year 3.
- ⇒ 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.

KEY KNOWLEDGE FACT SHEET

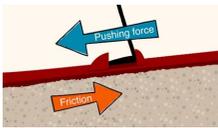
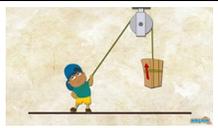
YEAR FIVE—FORCES

OVERVIEW

- ⇒ Building on learning from year 3.
- ⇒ 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.
- ⇒ Know how Galileo and Newton helped to develop the theory of gravitation.

WORKING SCIENTIFICALLY

- ⇒ Suggest ideas and questions about a given area.
- ⇒ Use information available and prior knowledge and research to make predictions.
- ⇒ Take measurements, using a range of scientific equipment, with increasing accuracy.
- ⇒ present sets of scientific data in an appropriate way.
- ⇒ Use test results to evaluate their predictions and to think of new ones.
- ⇒ Provide simple explanations for differences in observations or measurements.

KEY VOCABULARY			KEY VOCABULARY		
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