| | Science | Forces Year 5 |
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| | Key Vocabulary | Key Knowledge |
| WORD | DEFINITION | Gravity is a force which acts at a distance. It is a pull force that pulls objects towards the centre of the Earth. |
| Air resistance | the force that air exerts on a moving object. | The planets and the Sun do not touch, yet the planets stay in |
| Force | a push, pull, twist or turn. | orbit around the Sun due to the force of gravity. Friction is a force created between two surfaces when they |
| Friction | the force between 2 moving surfaces. | rub together. Friction creates heat and always slows down an |
| Gravity | a pushing force exerted by the Earth, it attracts objects towards the centre of the Earth. | object. Rough surfaces create more friction than smooth surfaces. |
| Mass | the measure of how much matter is inside an object, can be measured in g/kg etc. | Mass and Weight: The mass of an item can be measured in Grams/Kilograms. Weight is how much force is needed to pull an object and is measured in Newtons. |
| Mechanisms | machines or devices which help to achieve a result. | |
| Streamlined | when an object is shaped to minimise the effects of air or water resistance. | |
| Water resistance | the force that water exerts on a moving object. | |
| Weight | the measure of the force of gravity on an object, measured in Newtons (N) | experiments to test mass. |
| sometimes unhe | <u>Forces in Action</u> e and air resistance are forms of friction. Friction is sometin elpful. For example, air resistance is helpful as it stops the sk peed. | |
| sometimes unhelpful. For example, air resistance is helpful as it stops the sk ground at high speed. | | Levers Levers are a bar that rotates around a point. They make it easier to lift a heavy load. |
| Friction | | Water Gears/Cogs Gears are toothed wheels that mesh together, they rotate in opposite directions. Opposite |

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