

Greenfields Community School- Knowledge Organiser

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| Science | Forces | Year 5/6 | Autumn 2 |
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| Five Fabulous Facts about forces. |
| I know that gravity is a force that attracts objects towards the centre of the earth and that weight is the measure of the gravitational force acting on an object. |
| I know that friction is the resistance encountered by an object moving over another object. I can list some of the benefits of frictions. |
| I know that water resistance is the force acting against an object when moving in water. I can suggest ways to reduce and increase the water resistance on an object. |
| I know that air resistance is the force acting in the opposite direction to an object moving through the air. I can design my own investigation to fairly test the effects of air resistance. |
| I know that forces are measure in newtons (N). |

Forces in action



Vocabulary

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| Friction | The resistance an object encounters when moving over another object. |
| Gravity | The force that attracts an object towards the centre of the earth. |
| Forces | A push or pull that acts upon an object <u>as a result of</u> interactions with its surroundings |
| Water Resistance | A force that acts against an object moving through water. |
| Levers | A rigid bar, used to move a heavy or firmly fixed load with one end when pressure is applied to the other. |
| Air Resistance | A force that is caused by air. The force acts in the opposite direction to an object moving through the air. |
| Opposing Forces | Forces that work against each other. |