Key Vocabulary and Definitions:

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| Attraction  | The act or power of drawing toward something. E.g. magnetic attraction |
| Force  | Force is a push or pull on an object. A force can cause an object to accelerate, slow down, remain in place, or change shape. |
| Gravity  | Gravity is a force caused by a large body, such as the Earth. Gravity pulls objects toward the Earth. |
| Magnet  | A lodestone which has the property of attracting iron. |
| Magnetism  | Magnetism is a force. Metallic objects stick to a magnet because its magnetic force is pulling on the objects. |
| Pull  | Pull as a force could look like opening a door. With greater strength pulling on the handle, the door opens. |
| Push  | An example of push as a force would be to push on a swing. The force moves the swing in a particular direction. |
| Repulsion Poles of a Magnet (GCSE Physics) - Study Mind | The force that acts between bodies of like magnetic polarity tending to separate them. |

What should I already know?

* To identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard for particular uses
* To find out how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching.

Scientific Skills:

1. To record their observations in written, pictorial and diagrammatic forms
2. To put forward own ideas about how to find the answers to questions
3. To make relevant observations
4. To measure using given equipment
5. To select equipment from a limited range
6. To suggest improvements in their work
7. To evaluate their findings
8. To use results to draw simple conclusions, suggest improvements and raise further questions. (Assessed)
9. To set up simple practical enquiries (Assessed)

Teaching Sequence

1. To show examples of forces in everyday life.
2. To explore how forces affect an object’s movement.
3. To compare how things move on different surfaces. **(TAPS- Forces)**
4. To identify different types of magnets and show how the poles can attract and repel.
5. To compare and group together materials based on their magnetic properties.
6. To demonstrate attraction and repulsion between the poles of magnets.

Blooms Taxonomy – Specific Verbs to Use in Lesson Aims

Knowledge: Describe, find, identify, list, locate, name, recognise, retrieve Comprehension: Classify, compare, explain, infer, interpret, paraphrase, summarise Application: Carry out, implement, use Analysis: Deconstruct, Organise, outline, structure Synthesis: Construct, design, devise, invent, make, plan, produce, Evaluation: Appraise, assess, choose,



Scientific Skills

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| Term 2 | Let’s Talk (Explorify) | Scientific Knowledge | Scientific Skill |
| Lesson 1 | Odd one outGive it a pull<https://explorify.uk/en/activities/odd-one-out/give-it-a-pull> | To record their observations in written, pictorial and diagrammatic forms  | **Observe and Measure** |
| Lesson 2 | Table-top hovercraft[Tabletop hovercraft - Explorify](https://explorify.uk/en/activities/whats-going-on/tabletop-hovercraft) | To put forward own ideas about how to find the answers to questions. | **Ask Qs and Plan Enquiry** |
| Lesson 3TAPs |  | To record their observations in written, pictorial and diagrammatic forms To put forward own ideas about how to find the answers to questionsTo make relevant observations To measure using given equipment To select equipment from a limited rangeTo suggest improvements in their workTo evaluate their findings To use results to draw simple conclusions, suggest improvements and raise further questions. (Assessed)To set up simple practical enquiries (Assessed) | **Set up enquiry****Interpret and Report**Reporting on findings from enquiries (TAPS) |
| Lesson 4 | Have you everHave you ever used a magnet?<https://explorify.uk/en/activities/have-you-ever/used-a-magnet> | To put forward own ideas about how to find the answers to questions.To measure using given equipment  | **Record****Interpret and Report** |
| Lesson 5 | What’s going on?Mighty magnets<https://explorify.uk/en/activities/whats-going-on/mighty-magnets> | To record their observations in written, pictorial and diagrammatic forms  | **Observe and Measure** |
| Lesson 6 | Odd one outMarvellous magnets<https://explorify.uk/en/activities/odd-one-out/marvellous-magnets> | To record their observations in written, pictorial and diagrammatic forms  | **Observe and Measure** |