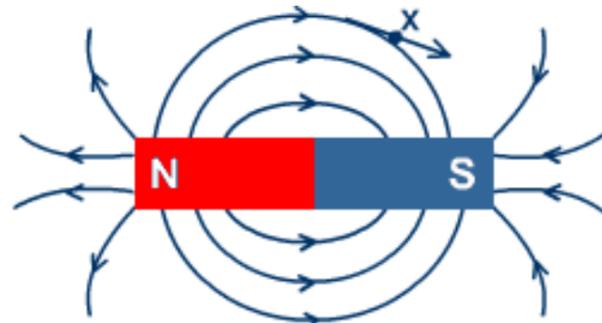


Forces & Magnets	Year 3 Autumn 1
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	Prior Knowledge	New Knowledge	Future Knowledge
Science	Distinguish between an object and the material from which it is made. Identify and name a variety of everyday materials, including wood, plastic, glass, metal, water, and rock. Describe the simple physical properties of a variety of everyday materials. Compare and group together a variety of everyday materials on the basis of their simple physical properties. (Y1)	Compare how things move on different surfaces. Notice that some forces need contact between two objects, but magnetic forces can act at a distance Observe how magnets attract or repel each other and attract some materials and not others. Compare and group together a variety of everyday materials on the basis of whether they are attracted to a magnet, and identify some magnetic materials. Describe magnets as having two poles. Predict whether two magnets will attract or repel each other, depending on which poles are facing.	Explain that unsupported objects fall towards the Earth because of the force of gravity acting between the Earth and the falling object. Identify the effects of air resistance, water resistance and friction, that act between moving surfaces. Recognise that some mechanisms, including levers, pulleys and gears, allow a smaller force to have a greater effect. (Y5)
Art & Design	Observe and talk about patterns and textures shown in art. (Y1) Use different techniques (e.g. dotting, scratching) to imitate an artist/style of art. (Y2)	Barbara Hepworth Artist Study To manipulate malleable materials e.g. rolling, pinching, pulling, impressing. To know how to cover and join objects for structure/form. To develop joining with clay (e.g. pinch, cross hatching, slip, coil techniques).	To develop joining with clay (e.g. pinch, cross hatching, slip, coil techniques) to add more detail. [Anthony Gormley] To deliberately use effects and techniques for a given purpose To cover accurately with Paper Mache or Mod Rock. To plan with annotations finishing decoration with accurate application. [Canopic Jars] (Y4)

Key Questions	Key Individuals	Key Vocabulary
Why do different objects move differently on different surfaces? In what ways, could you group together different materials? How can you predict whether two magnets will attract or repel each other? What inspired Barbara Hepworth and how can we describe her sculptures?	Barbara Hepworth (1903-1975) was an English artist and sculptor. Her work exemplifies Modernism and in particular modern sculpture. Some of her most famous works include <i>Single Form</i> and <i>Dual Form</i> . Leonardo da Vinci (1452-1519) was one of the first people to investigate and understand friction	Magnet - A magnet is a rock or a piece of metal that can pull certain types of metal toward itself. Force - A force is a push or a pull. Forces can make things move, change their speed, or change their shape. Magnetism - The force of magnets that is a basic force of nature, like electricity and gravity. Magnetism works over a distance. This means that a magnet does not have to be touching an object to pull it. Modernism - an art movement that began in the early 20th Century, which reflected the newly emerging industrial world.



Curriculum Leaflet	Year 3 Autumn 1
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Year 3 will be exploring the topic: 'Barbara Hepworth' and 'Forces and Magnets'. This unit of work will have a specific focus on developing the children's knowledge, skills and understanding in Art and Design and Science.

Maths	English	Home
<p>Maths Unit</p> <p><u>Number: Place Value</u></p> <ul style="list-style-type: none"> • Represent numbers to 1000 using dienes and place value counters. • To count in 100s and 50s • To learn a 3-digit number is made up of 100s, 10s and 1s. • To sort numbers to 1000 on a number line. • To find 10, 100 and 1000 more or less than a set number. • To compare and order 3-digit numbers from smallest to greatest and vice versa. <p><u>Number: Addition and Subtraction</u></p> <ul style="list-style-type: none"> • Add and subtract multiples of 100. • To add 3 digit numbers to 1 2 or 3 digit numbers with no exchanges • To add 3 digit numbers to 1 2 or 3 digit numbers with exchanges • To subtract 1 2 or 3 digit numbers from 3 digit numbers with no exchanges • To subtract 1 2 or 3 digit numbers from 3 digit numbers with exchanges • To apply these for problem solving <p>Revisit and consolidation: 2 5 and 10 times tables.</p>	<p>We will be studying: <i>The Day I Swapped my Dad for Two Goldfish</i> by Neil Gaiman</p> <p>Genre</p> <p><u>Narrative</u></p> <ul style="list-style-type: none"> • Predict what the story is going to be about by looking at the front cover and blurb. • Explore characters' thoughts, feelings and emotions by performing in role. • Using the correct punctuation for speech and synonyms for said. • Use fronted adverbials with commas to show passing of time. • Use apostrophes accurately for possession and contraction • Creating my own narrative based on the story by creating my own characters and changing key details. <p><u>Diary Entry</u></p> <ul style="list-style-type: none"> • Writing in the first person from the character's perspective. • Evaluate, edit and publish my writing independently. <p><u>Newspaper Report</u></p> <ul style="list-style-type: none"> • Using the correct layout of a newspaper report including a headline, introductory paragraph, main body and quotation. 	<p>Families can support learning in the following ways:</p> <ul style="list-style-type: none"> • Use the internet to research Barbara Hepworth / Forces and Magnets. • Visit examples of Hepworth's sculptures in London • https://londonist.com/london/art-and-photography/where-to-find-barbara-hepworth-sculptures-in-london • Explore everyday uses of magnets in the home • Accessing weekly home learning tasks via Google Classroom • Supporting the development of times tables skills via regular practice on Times Tables Rock Stars • Practise rapid recall of all multiplication and division facts and apply these to real life problems. • Reading daily at home • Accessing MyMaths for weekly maths homework