



## Y3 Project 1 Learning Journey: Mighty Metals

*We are engineers, scientists and makers of men (iron men, of course).*

This half term, we're going to become fantastic physicists, exploring the world of forces, metals and materials. We'll explore the forces that help us to slide, swing and keep our feet firmly on the ground. Using magnets, we'll find out whether we can magnetise materials and make metals leap through the air without touching them. We'll also investigate iron, think about why some metals rust and discover the properties of different metals. Using pots, pans and other metal objects, we'll compose a metal musical extravaganza to entertain our peers.

### Subject coverage

Please see the knowledge organiser sent with this document to find out what skills, knowledge and understanding your child is expected to have by the end of next term in their curriculum project.

<p><b>English</b></p> <p>Sentence structure and words classes.</p> <p><b>Project writing</b> A fact file about Sir Isaac Newton</p>	<p><b>Maths</b></p> <p>Number and place value, addition and subtraction Number sense Meaningful Maths: Data collection in science – reading Newton meter scales and timing, creating a bar charts</p>	<p><b>Science</b></p> <p>Forces and magnets. Metals and their properties</p> <p>BIG Q: How do forces and metals affect our lives?</p>
<p><b>History</b></p> <p>Timeline - First use of metals Black History Month</p>	<p><b>Computing</b></p> <p>iSafe: Online safety Usernames, passwords and privacy</p>	<p><b>Art</b></p> <p>Observational drawing focussing on line and tone</p>
<p><b>RE</b></p> <p>What does it mean to be a Jew?</p>	<p><b>Music</b></p> <p>Introducing pulse and rhythm</p>	<p><b>PE</b></p> <p>Real PE - Master basic movements including agility, balance and coordination and apply these in a range of activities.</p> <p>Hockey</p>
<p><b>French</b></p> <p>Les Salutations La Phonétique Les Nombres</p>	<p><b>PSHE</b></p> <p>Being me in my world: How do my behaviour choices affect me and others?</p>	



Inspiring the learning journey!

## **Suggested reads**

Why not pop along to your local library and see what books they have about forces and magnets? Here are some recommended reads:

- Metals (Everyday materials) - Harriet Brundle
- Robots (National Geographic Kids) - Melissa Stewart
- What makes a magnet? - Franklyn M Branley
- How robots work - Jenny Moss
- Forces and magnets – Peter Riley
- Robots (Fact Atlas) - Rick Allen Leider

## **Home learning challenges**

The only home learning task that is compulsory for all pupils is learning the spellings that will be set each week. These will be set weekly as an assignment on Spelling Shed (<https://play.edshed.com/en-gb/login>). If pupils do not complete this task at home, teachers will provide time for them to do this at lunch time so that they are prepared and succeed.

We also strongly encourage pupils to read 5 times per week and practise their times tables on TT Rock Stars at home. There will be a slip sent home shortly with all of your child's log ins.

## **Optional home learning challenges**

If after completing their compulsory spelling practice, and reading and playing TT Rockstars games, your child would like to complete additional home learning challenges, here are some ideas of projects they could attempt and bring in to share with their class teacher for *bonus merits*.

- Go on a magnetic treasure hunt in your house. How many magnetic objects can you find? What materials are they made from?
- Research some of the tasks carried out by robots. What tasks do you think robots could do in the future? What jobs would you like a robot to do in your house? Ask your parents – they're sure to have some ideas!
- Investigate the best surfaces at home for toy cars to travel on: carpet or a tiled floor? Measure the distance travelled on each type of surface and rank each one in order of effectiveness. Make a table or bar chart to show your results. Which force is acting to slow down and stop the cars from moving?
- Use non-fiction books and the internet to find out about a metal of your choice. Write down your findings as a list of facts.
- Imagine... you wake up and all the metal in the world has vanished! Write a story about your day. How is everyday life different without metal?
- Find out about King Midas and his golden touch.

## **Useful information**

- Y3 are scheduled to do PE on Monday and Thursday but this can change without notice so please ensure your child brings their full PE kit to school every Monday. Please provide your child with warm weather kit as well as indoor clothes. Earrings need to be removed before school if they cannot take their own earrings out with ease.
- A Y3 parent information meeting is scheduled for Wednesday 20th September at 2:15pm. Please enter via the main entrance for this event.
- School photos of individuals and siblings will take place on Friday 29<sup>th</sup> September.