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Y3 Project 1 Learning Journey: Mighty Metals

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

Throughout this project, we are 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. Then, we'll design our own toys by testing various forces to make them move. 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

English	Maths	Science
Write a warning tale based on 'The Iron Man' novel by Ted Hughes	Number and place value, addition and subtraction	Forces and magnets. Metals and their properties
History	Computing	Design & Technology
Timelines - First use of metals	Computer literacy – Using technology safely, responsibly and respectfully Focussing on new users & passwords and privacy	Designing and producing a magnetic game
RE	Music	PE
What does it mean to be a Jew?	Create a metal band	Real PE - Master basic movements including agility, balance and coordination and apply these in a range of activities. Hockey
PSHE	Art	French
How do my behaviour choices affect me and others?	Observational drawing focussing on line and tone Artist study – Vincent Van Gough	Les Salutations Les Nombres

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 science and their curriculum project.

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

Your child will also receive log in details in September for an online reading program MyOn. Here is a selection of the books that will be available digitally.



Optional home learning challenges

If after completing their reading, spelling practice, Numbots and 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 Tuesday and Thursday, but this can change without notice, so please ensure your child has their full PE kit in school every day.