



Oakhurst Community First & Nursery
School
*'From Little Acorns Mighty Oaks
Grow'*

Maple Class – Autumn 2 – Parent overview

Mighty Metals



This half term Maple Class are going to be engineers, scientists and makers of men (Iron men, of course!). We will first explore the scientific world of forces through a range of experiments in Science, PE and Design Technology to understand how different objects move over different surfaces, the best shape and size for a parachute and what objects fall to the ground fastest.

We will then investigate magnets and explore and observe 'magnetic attraction', 'repulsion' and 'magnetic poles'. Through the design of metal wind chimes and scientific observations, we will discover the properties of different metals and look at why some metals rust. Using our artistic skills, we will create embossed foil patterns and pictures using various tools to create different effects and imprints.

Throughout the topic, we will be using our writing skills to write reports, explanations and the results of our practical investigations and generate instructions for a magnetic game we will be creating. We will read many books to support our learning about this topic and in Guided Reading; we will be reading 'The Iron Man' by Ted Hughes.

At the end of the topic, we will invite you to see what we have learned and listen to our metal music extravaganza.

<u>Sparkly Starter</u>	<u>Fab Finish</u>
May the force be with you! We will play games that will get the children exploring how forces can move and change the movement of an object.	Using pots, pans and other metal objects, we will compose a metal musical extravaganza.
Date: Tuesday 5th November	Date: Wednesday 18th December

Key topic vocabulary

Below is a list of key vocabulary for your child to know and understand for the topic organised into 3 tiers, 'must know', 'should know' and 'could know'.

<u>Key Vocabulary</u>		
<u>Tier 1 – Must</u>	<u>Tier 2 – Should</u>	<u>Tier 3 - Could</u>
<ul style="list-style-type: none"> • attract • lever • metal • mineral • push • pull • spin • rust • engineer 	<ul style="list-style-type: none"> • force • gravity • friction • magnetic • magnetism • mineral • motion • molten • prototype 	<ul style="list-style-type: none"> • air resistance • magnetism • Newton • oxidise

How can you help at home?

- Support children completing the take away task
- Continue reading with your child as often as you can and filling in their reading record – remember you can read e-books by using your child's Oxford Reading Buddy log in.
- Complete the weekly Mathletics homework.

Our next class reward will be:

The children will be working towards a movie with popcorn and PJs.

The date for this will be confirmed once our token jar is full.

Take away task – Choose one or more to complete at home!

Due week beginning 11.11.19

Robots – our future!

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 are sure to have some ideas!

Magnetic Treasure Hunt

Go on a magnetic treasure hunt in your house. How many magnetic objects can you find? What materials are they made from? Make a table to show your results.

Fridge Magnet

Design and make a fridge magnet, either as a gift for someone or to commemorate a special event.