

Dear Year 3 Parents,

Our topic this half term is 'Mighty Metals'.

As you know we are setting daily tasks on PurpleMash for the children to complete as well as the White Rose maths videos and activities. If your child would like additional activities to complete, please choose from any of the activities below.

Literacy Writing

- Research a force such as gravity or fiction. Write an explanation text to explain what this is to someone who might not know.
- Design a new piece of play equipment for your local playground. Write a letter to the local council explaining what your piece of play equipment is and persuading them that it is needed in your local playground.
- Watch a video of metals being melted. Can you create a shape poem to describe what you can see?

Literacy Reading

- Read a range of untitled explanatory texts and decide what you think each text explains. Choose appropriate headings for the texts and consider how they might improve their content. Create a checklist of features of an explanatory text.
- Read a variety of instructions from a range of popular board games. Decide which you think is the best and why. Think about what makes an effective set of instructions.
- Read a set of jumbled up instructions. Can you rearrange it into its correct order and suggest extra details that might improve the instructions?

To support reading - First News have made their newspaper free to download:

<https://www.firstnews.co.uk/>

Please find below a list of recommended books to support our topic. Please don't feel you need to read all of these. Your child may find it useful to read one or more of these.

Recommended Reading List

The Iron Man	Waterstones Amazon Ted Hughes
Robots (National Geographic Kids)	Waterstones Amazon Melissa Stewart
What Makes A Magnet?	Waterstones Amazon Franklyn M. Branley
Robots (Discover Science)	Waterstones Amazon Clive Gifford
Until I Met Dudley: How everyday things really work	Waterstones Amazon Roger McGough
How Robots Work	Waterstones Amazon Jenny Moss
Forces and Magnets	Waterstones Amazon Peter Riley
Magnetism	Waterstones Amazon Louise and Richard Spilsbury
Robots (Fact Atlas)	Waterstones Amazon Rick Allen Leider
See Inside: Inventions	Waterstones Amazon Alex Frith
See Inside: How things work	Waterstones Amazon Conrad Mason
Metal (Materials)	Waterstones Amazon Harriet Brundle
100 inventions that made history	Waterstones Amazon DK

Spelling and Grammar

- Learn the 200 High Frequency Spelling words at www.highfrequencywords.org
- If your child already knows these, please work on learning the Year 3 and 4 Common Exception Spelling Words.
- A useful website to consolidate spelling and grammar skills is: <https://www.topmarks.co.uk/english-games/7-11-years/spelling-and-grammar>

Maths

Number and place value resources

I can find 10 or 100 more or less of a given number.

[Adding Ten](#) [Adding and Subtracting 100](#)

I can identify and estimate numbers in different units such as lengths (mm and m) and weight (g and kg)

Estimating lengths estimating weights

I can read and write numbers to 1000 in numerals and words.

Reading and Writing Numbers to 1000 game

Addition and Subtraction resources:

I can add and subtract numbers in my head, including questions such as $432 - 70$

Ghostbusters

I can add and subtract numbers in my head, including questions such as $432 - 200$.

Mission 2110

I can estimate the answer to a question before I work it out and then use inverse operations to check the answer when I have finished.

Using the inverse

Multiplication and Division resources:

I know my 3, 4 and 8 times tables: [Rocket Dad](#) [4 Times Tables Bubble Pop](#) [Hit the Button](#)

I can answer multiplication and division questions such as 16×5 or 45 divided by 9:

Hit The Button Division Facts

I can solve more complex problems and missing number problems involving multiplication and division: [Missing Factors](#)

Times Table Practice

- Make sure that your child knows their 2, 5, 10, 3, 4 and 8 times tables (in that order). These websites and apps can be useful for quick practice.
<https://www.topmarks.co.uk/maths-games/hit-the-button>
- DK 10 minutes a day app on the app store
 - <http://mathengaged.org/resources/card-games/> - Maths War is an especially good game for building quick recall for the four operations.

RE

- Create a non-chronological report explaining what happens during the different parts of Mass. Use diagrams and pictures to help explain this carefully.
- Examine a picture of the last supper. Create your own thought bubbles to show what feelings and questions you think the apostles might have.
- Learn about the events of Holy Week – create a leaflet explaining what happened on each day of Holy Week.

Science

- Using a magnet look around your home and identify magnetic objects. Work out what each listed item is made of and present your findings in a table.
- Investigate what happens to tarnished pennies when soaked in water, vinegar, coke, ketchup and lemon juice. Find out if rinsing the pennies in water after changes the effect. Create diagrams to show your results and write a conclusion to say what you've learnt.
- Make a table listing common metals you have found in your home and their uses. Talk about which metals have been used for which objects and why.

Design and Technology

- Explore levers, their function and every day uses such as see-saws, nail clippers and bottle openers. Investigate how using a lever can help to lift heavy objects.
- Make a mini-parachute using a selection of materials such as plastic bags, nylon and paper. Tie small figures or plasticine to the parachute and see what happens when the items are dropped from different heights.
- Design and make wind-chimes from old metal tubing, cutlery, key, chains and other scrap metal objects. Look at how the different types of metal, length and hole bore affects the sound generated when tapped with another metal object.

Computing and E-Safety

- Play Band Runner on https://www.thinkuknow.co.uk/8_10/ and learn about what you should and shouldn't share online.
- Make a PowerPoint explaining what you know about metals and forces to a KS1 child.
- Create a spreadsheet showing the different types of metals you have found in your home and how many objects are made of each metal you can find. Can you convert your spreadsheet into a bar chart?

Music

- Source old pots, pans, metal dustbins and their lids, pipes and metal sheets and create your own steel band. Listen to the different sounds produced by the different objects and try to play them together.