

**Class:** Mrs Stanforth, Mrs Forman and Miss Harrison

**Term:** Autumn 2 2019



**Project Title:** Mighty Metals

**Project and exhibition:** Jewellery making and metals quiz.

**Project Synopsis:**

Our project this term is about the Mighty Metals.

This half term, we're going to become fantastic physicists, exploring the world of forces, metals and materials. At a playground, we'll explore the forces that help us to slide and swing. We will investigate forces and we'll make spinners, play with parachutes and make magnetic games. We'll also investigate iron, think about why some metals rust and discover the properties of different metals. We will use our artistic skills to create embossed patterns and pictures.

- We will hook the children with the chance to visit Magna to explore how metals are created, what their uses are and why they are useful to us.
- In English, we will cover: character description, explanation text and poetry.
- We will plan and carry out scientific experiments using different materials on a slide, as well as making parachutes.
- We will investigate and learn about different types of metals and their properties.
- We will investigate why magnets repel and attract and which materials are attracted to magnets.

**Project Outcomes:**

This project will encourage care, collaboration and challenge, as well as building skills of investigation, exploration and scientific experimentation.

At the end of the project, we will invite you to see what we've learned and make fantastic metal jewellery. We'll also answer tricky quiz questions about metals.

**Curriculum opportunities:**

**Writing**

We will write a character description about the Iron Man based around the book by Ted Hughes. We will also write an explanation text based on forces and we will finish with writing descriptive poetry.

**Math**

Pupils will study the Big Math curriculum including data handling, shape and measure.

**Science**

Pupils will study forces and magnets using scientific experiments to discover friction, air resistance, magnetic materials and magnetic fields.

**DT**

Pupils will research and make parachutes to test different materials and their resistance to air and the forces acting upon it.

**RE**

Pupils will explore what the true meaning of Christmas is to Christians and compare it with what Christmas means to them.

**PE**

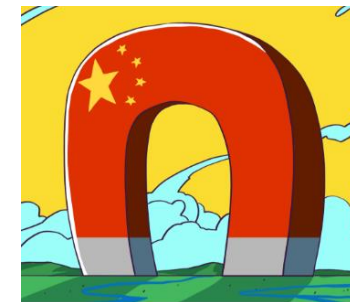
Pupils will use various large and small apparatus and their bodies to explore how forces work.



**Project Enhancements:**

**Visits and visitors**

- Visit to 'Magna' – Rotherham.



**How can you help?**

As always, your continued support with your child's learning is greatly appreciated. Please encourage them to practice spellings, multiplication tables and read on a daily basis.

**Creative Homework**

Children have a homework menu with a range of activities related to our project. They may choose a selection to complete before the end of the term. Please enjoy completing this homework with your child.

Springfield Primary Academy: Project based learning overview

<u>Subject</u>	<u>Objectives</u>
Science	<u>Sound</u> <ul style="list-style-type: none"><li>• Forces – push, pull, air resistance, gravity, fair tests compare how things move on different surfaces</li><li>• Magnets – investigate what a magnet will attract and repel, understand and know the poles, fair tests.</li></ul>
RE	<u>Has Christmas lost its true meaning?</u> <ul style="list-style-type: none"><li>• Explain what Christmas means to me.</li><li>• Understand the meaning of the nativity story to Christians.</li><li>• Know ways Christmas is celebrated by Christians and non-Christians.</li></ul>
PSHE	<u>Expressing fears and worries</u> <ul style="list-style-type: none"><li>• Jigsaw – Being me in my world.</li><li>• Anti bullying and cyber bullying.</li><li>• Firework safety, stranger safety and road safety.</li></ul>
ICT	Use word documents to present work (word processing and use of text box)  E-safety
Music	Year 3 toots and doods Year 4 Charanga – Stop

# Springfield Primary Academy: Project based learning overview

French	<u>All about me</u> <ul style="list-style-type: none"><li>• Numbers to 10</li><li>• Greeting phrases</li><li>• Introducing yourself (name, age)</li></ul>	
SPAG	<u>Year 3</u> <p>Conjunctions</p> <ul style="list-style-type: none"><li><input type="checkbox"/> Sentence punctuations</li><li><input type="checkbox"/> Capital letters</li><li><input type="checkbox"/> Types of sentences</li><li><input type="checkbox"/> Past and present</li><li><input type="checkbox"/> Suffixes/ More suffixes</li><li><input type="checkbox"/> Connecting clauses</li><li><input type="checkbox"/> The present perfect tense</li><li><input type="checkbox"/> Commas for lists</li><li><input type="checkbox"/> Direct speech</li><li><input type="checkbox"/> Noun phrases</li><li><input type="checkbox"/> Types of sentences</li><li><input type="checkbox"/> Apostrophes/ Possessive apostrophes</li><li><input type="checkbox"/> Nouns and pronouns</li></ul>	<u>Year 4</u> <p>Word origins</p> <p>Types of sentence</p> <p>Connecting clauses</p> <p>Imperative verbs</p> <p>The present perfect tense</p> <p>Sentence punctuation</p> <p>Vowel Suffixes</p> <p>The suffix '-ly'</p> <p>Common prefixes</p> <p>The suffix '-ous'</p> <p>'-tion', '-sion' and '-cian'</p> <p>Time and cause</p> <p>Using adverbials</p> <p>Capital letters</p> <p>Noun phrases</p> <p>Commas for lists</p> <p>Connecting clauses</p> <p>Direct speech</p> <p>Past and present</p> <p>Apostrophes/ Possessive apostrophes</p> <hr/>