

Spring Term 2 2016

7 Weeks

Connected Curriculum
The Iron Man

Subject Areas

Design Technology

Children will be making a pop-up book to retell the story of The Iron Man to a KS1 child. They will begin by researching examples of 'pop-up' books for KS1 children, looking at examples of pop-up mechanisms which use systems of levers and linkages. Children will then consider which materials and approaches will ensure that the product is robust and will stand up to a KS1 child working with it. They will use sketches and words to convey their ideas. Once their product is complete, the children will discuss how closely their finished product meets their design criteria and how well it meets the needs of the user.

Science

Children will

- compare how things move on different surfaces
- notice that some forces need contact between two objects, but magnetic forces can act at a distance
- observe how magnets attract or repel each other and attract some materials and not others
- compare and group together a variety of everyday materials on the basis of whether they are attracted to a magnet, and identify some magnetic materials
- describe magnets as having two poles
- predict whether two magnets will attract or repel each other, depending on which poles are facing.

As an introduction to this unit of science, children will be presented with the question "What do robots eat for breakfast?" Children may have heard adverts for breakfast cereals talk about them containing iron. We will discuss what the term 'iron' means. We will then investigate how much iron is in breakfast cereal by conducting an experiment that allows children to extract the iron from cereal using magnets.

Music

In this theme, children will study the music of Marvel Studios - home to the Iron Man movie franchise. This will then lead them to investigate the impact of music on film trailers and films in general before they then compose their own music or special effects to a trailer of their choice. They will begin by watching/listening to 'The Music of Marvel studios' and will identify adjectives to describe how the music sounds to them. They will list the instruments they can hear and consider the speed of the music. Children will watch some suitable film trailers without the sound and discuss how effective they are without any music. They will then make their own music and/or sound effects for these trailers.

Computing

The learning within this theme allows children to explore and experiment with the use of inputs and outputs. Children will learn about the differences between inputs and outputs and examples of their uses. Children will discuss some common examples of input devices such as computer keyboards, mice and cameras. Children will then investigate creating simple and more complex sequences of commands to investigate the inputs and outputs involved.

Art

Within this theme, children will explore the role of book illustrators who bring visual impact to a text. In particular, they will consider Laura Carlin and her award winning illustration of 'The Iron Man', on her website. The children will then make detailed observational studies of cogs, spanners, bolts and chains

etc. in their sketchbooks which will inform a larger piece of work which will be displayed in our classroom.

English

Novel as a theme - The Iron Man by Ted Hughes

Children will be studying one of the greatest of modern fairy tales, 'The Iron Man' by Ted Hughes. Children will begin by interpreting ideas in order to visualise the character of The Iron Man. They will annotate sketches of The Iron Man using vocabulary from the text. Children will compare their visualisations with the film versions and will be able to discuss events. Children will deepen their understanding of the characters using drama techniques such as 'hot seating'. In reading the text, children will specify points and use evidence from the text to justify opinions. Towards the end of the unit children will write an innovated story or a story with a change of viewpoint which includes the language, sentence structure and grammar we have been learning.

Recount: Diaries

Children will read extracts from diaries and they will identify who they think has written each extract. They will include the key points of a diary using 'who, what, where, when, why and how' with evidence from the text. Children will be participating in a group presentation, reporting accurate details about the diary extracts they have read. As a class we will select a context for writing a diary. This will be linked to either the children's own experiences e.g an event in school, or writing in role of a character from The Iron Man. By the end of this unit, children will create diary entries which will include determiners and text type features.

Maths

- Week 1 - Written addition and subtraction in the context of statistics
- Week 2 - Time, Place value
- Week 3 - 2-D and 3-D shape including angles
- Week 4 - Written Multiplication, Fractions
- Week 5 - Multiplication facts, Mental multiplication and written division
- Week 6 - Position, direction and shape
- Assessment

Cross- curricular Mathematics: linked to learning opportunities in Science where children will be investigating how far they can make a toy car travel, children will utilise their measuring skills. They will create a ramp with a given height, roll the car down from the top and measure how far it travels along the floor from the end of the ramp. Measurements will be taken to the nearest half centimetre and could be rounded to the nearest centimetre.

Linked to learning opportunities in design technology, there will be opportunities for children to apply their knowledge and understanding of geometry, in particular, shapes, lines, horizontal, vertical, parallel, perpendicular and angles.

Religious Education

Unit 4.4 Exploring Easter as a story of Betrayal and Trust

- Children will have the opportunity to reflect upon the importance of power and effect of betrayal, trust and forgiveness by analysing the Easter story. They will be identifying and explaining the significance of the incidents of betrayal and trust in the Easter story and in doing so will develop their religious vocabulary. Children will talk about the importance of forgiveness in Christianity.

Physical Education

Striking and Fielding

- Children will play competitive games and apply basic principles suitable for attacking and defending.

Education Visits/Visitors to school _____ Parbold Music Festival