



Inventions: Forces and Magnets!



Driving Question:

How could we, as designers, create a new magnetic game for children?

Launch:

We will be exploring a range of magnetic board games and toys and evaluating the use of magnets to enhance the gameplay experience.

Overview:

In our new topic, we will be taking on the role of designers, where we will be exploring how magnets can be used to create an engaging and enjoyable board game. Within this topic, we will be considering how magnets are used in everyday life along with how magnets work.



Science

Sort and classify magnetic and non-magnetic materials.

Geography

Explore UK and local land use.

English

Write a dialogue between characters from the text "Iron Man".

DT

Design, make and evaluate a board game.

Vocabulary:

magnet
force
pull
South Pole
North Pole
attract
repel
magnetism
push
compasses
direction

Learning conversations to have at home:

Investigate your home to find items which have a magnet inside of them.

Bags and jewellery might have a magnetic clasp to keep them closed. Your refrigerator door might have a magnet to keep it tightly closed to ensure the inside stays cold. Microwaves contain a magnet in order to create a magnetic wave to help heat your food.

Discuss with your child areas in the UK that you have travelled to or would like to go to. What does it look like there?

Ask your child to recall from Year 2 the capital cities within the UK: London, Cardiff, Belfast, Edinburgh.

Topic Home learning:

Choose your activity!
Why not research all about how magnets work and how they are used in the world around us?
Create a magnetic maze game.
Create a 3D replica of "The Iron Man".

**On or before: Monday 4th
December 2023**



Future Careers:

We will be joined by a game designer who can help us think about how games are used to educate, entertain and bring families together.

Landing:

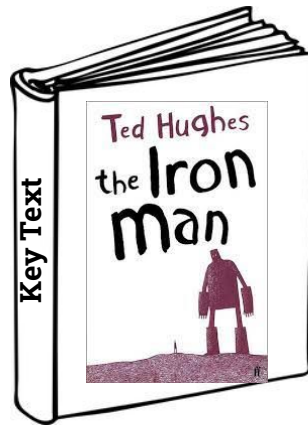
Following our learning about magnets, we will be inviting parents in to play our games and evaluate them.

Reading

This term our key text is 'The Iron Man' by Ted Hughes. The story is a classic tale of a boy who meets a character who becomes an ally and together they attempt to save the world from certain doom.

What would you do if you were playing and suddenly a giant robot came to life?

How does the Iron Man outsmart its enemies?



What is your favourite part of the story and why?

Which Jewell learning skills do the characters demonstrate?

English

- ★ Narrative writing focus
- ★ Fronted Adverbials
- ★ [Subordinating Conjunctions](#)
- ★ Direct Speech

How can you help at home?

- At home or out and about, encourage children to come up with different [adjectives](#) to describe what you see.
- Discuss use of inverted commas in books. Find exciting verbs for 'said'.

Maths

- ★ Multiplication.
- ★ Money.
- ★ Addition and subtraction.

How can you help at home?

- Encourage your child to practice their times tables for 10 mins a day on TTRockstars.
- When you are out shopping ask your child to add up two numbers mentally.

Science

We are learning how magnets can attract or repel each other.

Geography

We are learning about the United Kingdom and the local land use.

Music

We are introducing the children to learning about the language of music through playing the glockenspiel.

PSHE

We are celebrating how and why we are all different, along with why this is important.

DT

We are learning about joining materials when creating our own board games.

Computing

We are learning how to create simple game pieces using a 3D printer.

Physical Education

We are learning about tactics in invasion games and working together as a team.

Physical Education

We are learning about travel on a range of apparatus and how to dismount equipment safely.

Spanish

We are learning about early language used in Spanish and recapping on our greetings/colours.

Religious Education

We will be exploring if celebrating Christmas brings a feeling of belonging to a Christian.

Dates for the diary

Friday 24th November 2023 - INSET day.

Friday 15th December 2023 - Last day of term (1:15pm finish).