

Heathfield PRIMARY SCHOOL



Curriculum Booklet

Year 5

Spring 1

Writing

Keywords

narrative
one-sided argument
diary entry
adjectives
full stops

commas
fronted adverbials
conjunctions
problems
resolution

emotive language
description
feelings
persuasion
expanded noun phrase

In school we will be learning

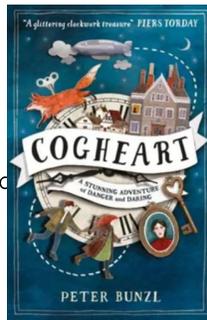
Year 5 will be learning about how to write effective diary entries. They will be writing pieces with subject context linking to our new book: COGHEART.



The children will be focusing on using the transferable skills from the last diary entry to add new features, such as emotive language, sentence starters and concentrating on the structure of the writing.

They will also begin to look at a narrative, where they will follow the structure of setting/character description, build up, problem, resolution and ending. This will focus on using adjective to get deep description, creating tension using conjunctions and adding a cliff hanger.

Their writing will be linked to our book, COGHEART, giving the children the opportunity to delve deeper into the story itself. We will continue to follow the same structure within our writing lessons, ending each unit with an extended write.



At home you can

- Practise spelling - given out every Friday, test is on Tuesday.
- Support with English homework also given on Friday to be handed in on Tuesday (Collins books and atom learning.)
- Write stories using video starters (link below)
- BBC Creative writing information (link below) in order to improve narrative and creative writing generally.

Useful websites



[Atom learning creative writing](#)



[dramatic clips](#)



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H

Reading

Keywords

comprehension
author
fiction
inference
retrieval

intonation
fluency
punctuation
tone
summarising

skimming and scanning
prediction
expression

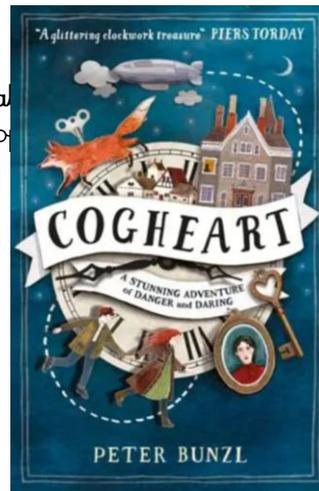
In school we will be learning

Year 5 will be exploring the novel **Cogheart**, an exciting adventure set in a world inspired by Victorian Britain and the Industrial Revolution. The story follows Lily, whose inventor father goes missing, and her journey—alongside her mechanical fox, Malkin—to uncover the truth.

The book's setting reflects the era's rapid technological change, featuring airships, clockwork machines, and steam-powered inventions that echo the innovation and atmosphere of the 19th century.

During reading lessons, the children will strengthen key comprehension skills. They will practise **retrieval** locating important details from the text, and develop **inference**, using clues to understand characters' thoughts, motives, and emotions.

Vocabulary will remain a strong focus, with pupils exploring ambitious words from the story and building their understanding of **synonyms** to broaden their language choices. Through this rich text, children will deepen both their reading confidence and their historical understanding.



At home you can

- Work through the online comprehension activities for the chapters.
- Write reading book reviews.
- Learn about what are synonyms on BBC Bitesize.
- Read your enrichment books at home.

Useful websites



[Microsoft Word - Literacy Shed Cogheart.docx](#)
[Comprehension](#)



[HF Book Reviews](#)



[BBC](#)

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H

Maths

Keywords

factor - anything that contributes multiplied causally to a result

multiplier - the number by which a multiplicand is

multiplicand - the number that is multiplied by the multiplier

product - is the result of a multiplication
remainder
divisor
quotient

In school we will be learning

The basis of learning this half term will be to make sure pupils are confident in using short and long multiplication.

This will start in the form of making sure pupils can multiply numbers up to 4-digits by a one-digit number (short multiplication). Video in useful websites.

$$\begin{array}{r} 213 \\ \times 3 \\ \hline 639 \\ 213 \times 3 = 639 \end{array}$$

When this is secure, we will move on to multiplying up to 4 digit numbers by two digit numbers (long multiplication).

$$\begin{array}{r} 98 \\ \times 54 \\ \hline 392 \\ 4900 \\ \hline 5292 \end{array}$$

← This is 98 x 4
← This is 98 x 50
← This is 98 x 54

For this to be successful it is really important that pupils have a good knowledge of times tables.

After this, we will move on to dividing up to 4-digit numbers by one-digit numbers with remainders.

We will use the bus stop method.

$$186 \div 6 = 31$$
$$\begin{array}{r} 031 \\ 6 \overline{) 186} \\ \underline{6} \\ 18 \\ \underline{18} \\ 6 \\ \underline{6} \\ 0 \end{array}$$

no groups of 6 can be made 3 x 6 = 18 1 x 6 = 6

Throughout all lessons pupils will have access to reasoning problems to test their knowledge.

We will then use these new methods to solve problems with measurements.

At home you can

- For the unit of multiplication and division being successful, pupils need to know times tables up to 12x12. To help Times Table Rockstars is a great resource to help learn and get quick recall of these. Link provided.
- Talk about the methods and practice. Discuss what was hard with these methods.
- Discuss times when times tables can be used in real life. Eg. 4 wheels per car, so how many wheels in the 123 cars? What if each wheel cost £65? Can they use formal methods to solve these?

Useful websites



[TTRS long multiplication](#)



[how to multiply 4 by 1 digit](#)



[how to do](#)

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H

Science

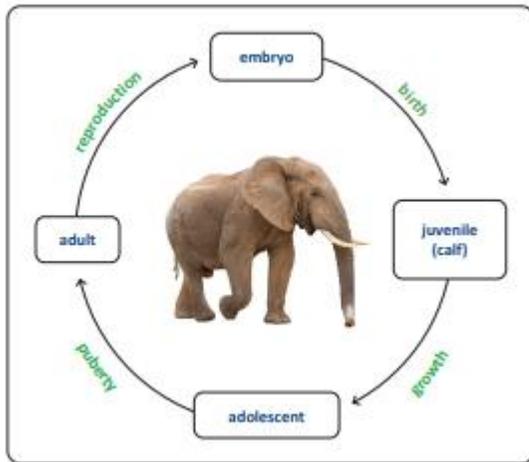
Keywords

life cycle
stage
process
mammal
mammalian

scatter graph

In school we will be learning

The module Human Reproduction and Ageing will go across the whole of the Spring term. In Spring 1, the children will revisit the life cycles of vertebrates and invertebrates and make comparisons in the stages and processes. They build on learning about mammals and mammalian characteristics from Year 4. They explore mammalian life cycles and look for patterns in the stages and processes. Children investigate the relationship between mammalian mass and gestation period, using research to find data and plotting and interpreting scatter graphs. They learn about the stages and processes of the human life cycle, drawing diagrams to show their understanding.



There are four stages and four processes to the mammalian life cycle.

At home you can

- Research the life cycle of a family pet and draw it out and label the stages and processes.
- Buy a butterfly growing kit and observe the life cycle in front of your very eyes.
- Go to a nature reserve such as Sandwell Valley and observe as many different species of mammal, amphibians, birds... as possible and make notes on what stage of life you think they are in. Use the internet to check if you are right.

Useful websites



What is a life cycle?



Life Cycle Games

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Humanities History

Keywords

Industrial
Revolution
Industry
Manufacturing

Factory
Workers
Impact
Cause and

consequence
Manufacturing
spinning jenny
Clothes transport
railroads

In school we will be learning

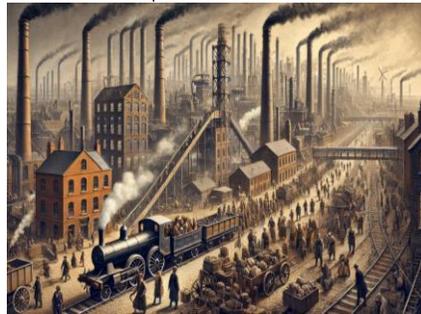
Birmingham and the Industrial Revolution

In this topic the children will learn about how Birmingham grew rapidly during the Industrial Revolution, shifting from a market town to one of the fastest-growing cities of the 19th century. Immigration, innovation, and expanding factories reshaped the city, while new transport links and steam-powered machinery increased production and efficiency.

These changes boosted employment, encouraged urban growth, and helped Birmingham become a major industrial centre.

The rise of workshops and metalworking industries, supported by inventions like early steam engines, strengthened Birmingham's identity as a hub of progress.

Scientific achievement and commercial innovation helped drive Britain's wider industrial leadership, inspiring similar cities across the world.



At home you can

- Research the following terms and make an information poster about them: industry, industrial, revolution, manufacturing, factories, steam engine.
- Use BBC Bitesize website to research and find out more about the Industrial Revolution in Britain.
Write a story set in the period of the Industrial revolution.
- Write a diary entry from the point of view of one of the inventors/ workers in the factory.
- Learn about the types of industry that were impacted the most by the Industrial Revolution and how that impacted Birmingham, and the world around us.

Useful websites



Industrial revolution

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Computing

Keywords

vector	move	zoom	order	reuse
drawing tools	resize	select	copy	reflection
object	colour	align	paste	
toolbar	rotate	modify	group	
vector drawing	duplicate/copy	layers	ungroup	

In school we will be learning

In this half term, children start to create vector drawings. They learn how to use different drawing tools to help them create images. Children recognise that images in vector drawings are created using shapes and lines, and each individual element in the drawing is called an object. They will layer their objects and begin grouping and duplicating them to support the creation of more complex pieces of work.

Children will begin to identify the shapes that are used to make vector drawings. They will be able to explain that each element of a vector drawing is called an object. Children will create their own vector drawing by moving, resizing, rotating, and changing the colours of a selection of objects. They also learn how to duplicate the objects to save time.



At home you can

- Download vector drawing apps and have a go at creating drawings. Examples of this apps can be Curve or Vector Ink
- Research and watch videos on how to create vector drawings
- Find the definitions of the keywords above

Useful websites



vector graphics editor



What are vector graphics?

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D&T

Keywords

mechanism
machine
lever
gears
pulley
motion

oscillating
input
transmit
output
mechanical
Linear

system
rotary
frame

In school we will be learning

In this unit, Year 5 pupils will explore mechanical systems and how they are used to create movement in everyday objects. The focus will be on understanding and applying linkages and levers to design and make a product that moves in a controlled way.

Children will learn how simple mechanisms such as levers and linkages work, investigate real-life examples in toys, tools, and machines, and develop technical vocabulary like pivot, linkage, lever, input, and output. They will apply this knowledge to design and create a moving model or product, and evaluate and improve their designs based on functionality and aesthetics.



Throughout the unit, pupils will develop problem-solving and creative thinking skills, learn to measure, cut, and assemble materials accurately, use tools safely and effectively, and test and refine their designs to improve performance. This unit helps children see how engineering principles are applied in everyday life. It encourages curiosity about how things work and builds confidence in practical making skills, preparing them for more complex design challenges in the future.

At home you can

- Talk about mechanisms in household items (e.g., scissors, door handles, bicycles).
- Encourage children to sketch ideas for moving models.
- Provide opportunities for hands-on exploration with safe materials (card, paper fasteners, etc.).

Useful websites



Pulleys



Pulley made at home

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Music

Keywords

gospel
notations
crotchet
quaver
minim

semibreve, and their corresponding
rests
pitch
tone

In school we will be learning

This half term, pupils will continue to learn about keyboards.

We will be playing along to 'Lean on me' a soul and gospel song.

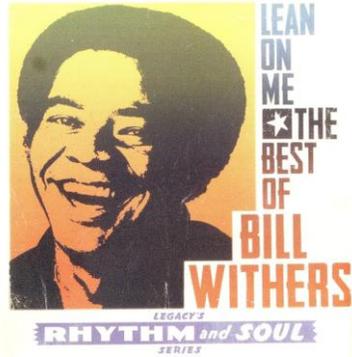
Over the half term we will continue to develop technique sufficient to play a full octave on the keyboard. We will also read stave notation more fluently, including pitch and rhythmic values (crotchet, quaver, minim, semibreve, and their corresponding rests).

As well as playing the keyboards we will learn to sing the song "Lean on Me".

We also will play instrumental parts with the song from notation using up to 4 notes - C, E F +G.

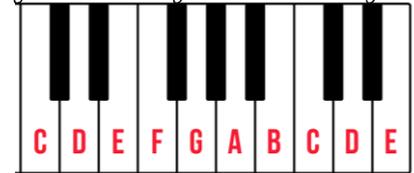
As well as being told what to play, we want pupils to improvise with claps and voice using notes F, G and A.

We will then move on to composing a simple melody using simple rhythms choosing from the notes F, G + A or D, E, F, G + A.



At home you can

- Listen to the song 'Lean On Me'. Link provided. Clap, tap and find the beat to the song. Sing along with the song.
- Explain where the notes are on a keyboard. Can you draw a diagram of a keyboard and label the notes?



Listen to other gospel songs and discuss the meaning of the songs.

Useful websites



Lean On Me by Bill Withers

Williams



Say Yes by Michelle

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H

RE

Keywords

attentive
silent
honesty
open
transcendent
sacred

sacred
Islam
Christianity

In school we will be learning

This term the children will be looking at the disposition of 'Being open, honest, and truthful' and 'Being silent'.

Being open, honest and truthful

The aim of this unit is to help the children explore why telling the truth is important and understanding people's reactions. They will learn this through the Islamic and Christian perspective. Looking at 'hadiths' as the words of the Prophet Muhammad received from Allah. The children will also learn how it is easy to judge others and not notice how we act ourselves.

Being silent

The aim of this unit is to help children explore why and how Humanist and Christians value time for reflection. They will look at how important decisions are made by Christians. The children will learn how some Christians like to spend time quietly with God meditating and reflecting. They will listen to stories from the Psalms where it inspires people to make good choices.

At home you can

- Ask children these questions what is it like when you are really quiet?
- How does Islam teach you to listen and see what's important?
- How does Christianity teach you to listen and see what's important?

Useful websites



RE Quizzes KS2



BBC Bitesize RE

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H

PSHE

Keywords

communicate
friends
relationships
family
positive

internet
social media
content
consent
sharing

In school we will be learning

How can friends communicate safely?

This half term, we will be discussing with our class about the different types of relationships people have in their lives. We will discuss how friends and family communicate together and how the internet and social media can be used positively. There will be discussions surrounding how knowing someone online differs from knowing someone face-to-face as well as being able to recognise risk in relation to friendships and keeping safe online and offline. We will also be looking at the different types of content (including images) that is safe to share online. Discussing how ways of seeking and giving consent before images or personal information is shared with family and friends.



Stay safe online

At home you can

- Talk to your child weekly about what was covered in their PSHE lesson.
- Make rules together about how to be safe with their friends online and offline.
- Discuss what makes them happy and sad in friendships and what they can do if they feel sad.

Useful websites



What are relationships?



relationships and community

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H

PE

Keywords

symmetrical balances
asymmetrical balances
collaboration
Perseverance
confidence

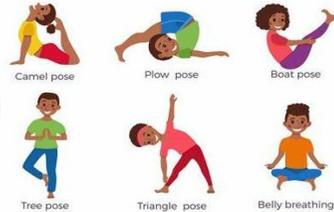
In school we will be learning

This half term the children will be developing the Yoga skills to build on their knowledge, skills and understanding of various yoga activities.

They will focus on developing flexibility through the sun salutation flow.

They will work on developing strength in core and limbs, through various yoga flows/ stances.

They will also consider improving and developing their balancing skills.



At home you can

- Practise the Yoga poses at home to develop use of balance.
- Watch yoga videos for kids at home and join in as a family.
<https://youtube/ZHgk49hjjYY>



Useful websites



Yoga for Kids



Balancing poses for kids

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