



Year 6 Spring Overview



English

> RWI Spelling

> Henry's Freedom Box By Ellen Levine and Kadie Nelson

Writing Outcomes: diary entry, biography, recount and speech

> The Promise by Nicola Davies

Writing Outcomes: character, narrative, poetry, third person short narrative and newspaper report

Within each of the units, we will learn about a range of sentence styles including those with varied punctuation.

Maths

> Ratio

Add or multiply

Use ratio language

Introduction to the ratio symbol

Ratio & fractions

Scale drawing

Use scale factors

Similar shapes

Ratio problems

Proportion problems

Recipes

> Algebra

Function machines

Form expressions

Substitution

Formulae

Form equations

Solving 1-step and 2-step equations

Finding pairs of values

Solve problems with two unknowns

Maths Continued

> Decimals

Place value within 1

Place values integers and decimals

Round decimals

Add and subtract decimals

Multiply by 10, 100 and 1000

Divide by 10, 100 and 1000

Multiply decimals by integers

Divide decimals by integers

Multiply and divide decimals in context

> Fractions, decimals and percentages

Decimal and fraction equivalents

Fractions as division

Understanding percentages

Fractions to percentages

Equivalent fractions, decimals and percentages

Order fractions, decimals and percentages

Percentage of amounts

Percentages—missing values

Maths Continued

> Area, Perimeter and volume

Shapes—same area

Area of a triangle—counting squares

Area of a right-angled triangle

Area of any triangle

Area of a parallelogram

Volume—counting cubes

Volume of a cuboid

> Statistics

Line graphs

Dual bar charts

Read and interpret pie charts

Pie charts with percentages

Draw pie charts

The mean

Science

> Animals including Humans

- Understand the function of the heart
- Identify and compare blood vessels
- Explore blood
- Learn how the body transports water and nutrients
- Investigates what affects your heart rate
- Learn about the impact of drugs and alcohol on the body

> Evolution and Inheritance

- Understand how offspring vary and are not identical to their parents.
- Learn about animal adaptations
- Learn about plant adaptations
- Explore what we can learn from fossils
- Explore the theory of evolution by natural selection

RE

> Should a person's religion believe always come first in their life?

- Analyse how diverse expressions of Christian worship can reinforce faith & belief.
- Describe three ways in which Muslim worship shows devotion to Allah making reference to life at home and in the mosque.
- Analyse and evaluate Hindu beliefs about reincarnation, vegetarianism & caring for the environment.
- Explain the Hindu idea of 'Karma and how actions have consequences. Compare and contrast with similar values found in other religious/non-religious viewpoints studied.

> Did Jesus make a choice to die or was his fate pre-determined?

- Explain the roles of 'Father, Son and Holy Spirit' (Trinity) in the Christian view of God
- Describe why Christians say Jesus is the 'Son of God'; the 'Christ' and both 'God and man'.
- Explain how the celebration of Easter links to the idea of Jesus reconciling people to God so that Christians can live forgiven in relationship with God, (sacrifice and reconciliation).
- Suggest answers to questions that the resurrection of Jesus might raise.
- Suggest lines of enquiry and plan investigations into religious/non-religious viewpoints

Computing

> Coding

- Designing and making a more Complex Program
Using Functions
- Flowcharts and Control Simulations
- Using Text-based Adventures
- User Input

> Text Adventures

- What Is a Text Adventure? Planning a Story Adventure
- Making a Story-based Adventure Game
- Coding, Comprehension of Text Adventure Game
- Debugging and Improving a Text Adventure.

> Blogging

- What is a blog?
- How to plan a blog
- How to write a blog
- How to share posts and comment on a blog post

History

> What did the Greeks do for us?

- To understand where and when the ancient Greeks lived.
- To understand the importance of the Greek gods.
- To identify similarities and differences between Athens and Sparta.
- To understand how Athenian democracy worked.
- To understand the importance of the ancient Greek philosophers.
- To identify and explain the achievements of the ancient Greeks
- To understand how society is organised in different cultures, times and groups.
- To be able to identify the achievements of civilisations and explain why these achievements were so important.
- To understand the term "century" and how dating by centuries works. (e.g. the 1500s are known as the 16th century)
- To understand how to work out durations of periods and events.

Geography

> Would you like to live in the desert?

- Identify the lines of latitude where hot desert biomes are located.
- Describe the characteristics of a hot desert biome.
- Locate the largest deserts in each continent.
- Describe ways the Mojave Desert is used.
- Name and describe the physical features found in a desert.
- Identify how humans use the desert.
- Explain how human activity may contribute to the changing climate and landscape of a desert.
- Recognise that the Mojave Desert has a different time zone to the UK.
- Describe some of the threats to deserts.
- Give the benefits and drawbacks of living in a desert environment.
- Identify characteristics of two contrasting biomes and compare land use.
- Discussing if a desert environment is hospitable and why.

PSHRE

> Be yourself

- To explain why everyone is unique and understand why this should be celebrated and respected.
- To explain why I should share my own thoughts and feelings and I know how to do this.
- To explore uncomfortable feelings and understand how to manage them.
- To understand why we sometimes feel shy or nervous and know how to manage these feelings.
- To identify when I might have to make different choices from those around me
- To explore how it feels to make a mistake and describe how I can make amends.

> Diverse Britain

- To talk about the range of faiths and ethnicities in our nation and identify ways of showing respect to all people
- To explain what a community is and what it means to belong to one.
- To explain why and how laws are made and identify what might happen if laws are broken.
- To discuss the terms democracy and human rights in relation to local government.
- To discuss the terms democracy and human rights in relation to national government.
- To investigate what charities and voluntary groups do and how they support the community.

Music

> To create music inspired by Ethel Smyth and a picture of the suffragettes.

- Composing using a non-musical stimulus. Lyrics, melody, steady beat, tempo, ostinato, coda.
- Learn about the suffragettes and listen to their anthem.
- Decide on a topic to protest about.
- Create a set of lyrics.
- Fit their words/lyrics to a pulse.
- Create a melody and sing it.
- Sing with a sense of pulse.
- Structure their musical ideas into a song.
- Add instruments and possibly an introduction and ending.
- Perform to an audience.

Design Technology

> Gears and pulleys

- To create a working gear system and explain its function.
- To improve a working gear system and suggest some applications.
- To create a working pulley system and explain its function.
- To conduct market research to discover useful tasks an eco-gadget bike could perform.
- To design and evaluate an eco-gadget bike using design criteria.

Art

> Drawing: I need space

- To explore the purpose and effect of imagery.
- To understand and explore decision making in creative processes
- To develop drawn ideas through printmaking.
- To test and develop ideas using sketchbooks.
- To apply an understanding of drawing processes to revisit and improve ideas.

PE

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MFL (French)

> Sport

- To understand and remember some sports nouns in French.
- To talk about sports I like and dislike.
- To create extended sentences about sports including an opinion
- To identify parts of the verb 'jouer' (to play).
- To understand a description of a sport using simple sentences.
- To describe a sport using simple sentences.