

PRIMARY TOPIC PLANNER – Year 6

HISTORY

To consider the impact of rivers on local and national history and the importance of the changes caused.

To understand historical concepts such as continuity and change, cause and consequence, similarity, difference and significance.

To frame historically valid questions and create their own structured accounts.

To understand the methods of historical enquiry. To understand the connections between local, regional, national and international history.

GEOGRAPHY

To understand the processes that give rise to key physical and human geographical features such as flooding.

To collect, analyse and communicate with a range of data gathered through experiences of fieldwork of rivers, lakes, and the underwater environment.

To understand physical geography, including: biomes and vegetation belts, rivers, mountains and the water cycle.

To consider the distribution of natural resources including energy, food, minerals and water.

To use atlases and globes, digital/computer mapping to locate countries and areas studied.

To use eight points of a compass and Ordinance Survey maps.

To use fieldwork to observe, measure, record and present the human and physical features in the local area using a range of methods.

SCIENCE

To partake in planning different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary.

To understand the relationship between ecosystems, interdependence and adaption.

To understand that some materials will dissolve in liquid to form a solution, and describe how to recover a substance from a solution.

To demonstrate that dissolving, mixing and changes of state are reversible changes.

To compare and group together materials on the basis of their properties.

ART/DT

To produce river sketches and underwater scenes inspired by Flotsam by David Wiesner.

To improve mastery of art and design techniques, including drawing, painting and sculpture with a range of materials [for example, pencil, charcoal, paint, clay]

To partake in a photography activity at the river.

To use sketch books to record observations and to review and revisit ideas.

DT:

To plan, cook and evaluate healthy balanced meals.

RE

To explore who Jesus was and how he has been described by others and himself.

To understand how Jesus has been depicted in Art and what this can tell us about him.

To learn about the Baha'i faith.

To think about unity in religious and non-religious contexts.

Summer Topic 2021 Water, Water Everywhere

PSHCE

Topics to include:

1.Relationships

Myself and My Relationships

Managing Change

2.Changes

Healthy and Safer Lifestyles

Sex and Relationships Education

Economic Wellbeing

Financial Capability

SEAL – relationships and changes

COMPUTING

To select, use and combine a variety of software (including internet services) on a range of digital devices to accomplish given goals.

To use technology safely, respectfully and responsibly; recognise acceptable or unacceptable behaviour; identify a range of ways to report concerns about content.

To use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs.

MUSIC

To compose music for a range of purposes using the inter-related dimensions of music.

SUSTAINABILITY

To consider water shortage in different parts of the world – link to water conservation competition.

To consider the impact of global warming on water levels.

FRENCH

To name and discuss instruments.

To prepare for secondary school language learning.

To read and write a story in French.

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MATHEMATICS

Revise reading, writing, comparing and ordering numbers with up to seven digits and decimal numbers with up to three decimal places; revise rounding decimal numbers to the nearest tenth and whole number; revise rounding big numbers to the nearest thousand, ten thousand, hundred thousand and million; revise locating a number on a number line marking numbers it lies between; revise comparing and ordering negative numbers including calculating differences between negative numbers and positive and negative numbers

Revise adding and subtracting whole numbers and decimal numbers using mental and written methods; revise finding percentages of numbers, converting fractions, decimals and percentages and making comparisons using percentages; revise how brackets can be used in calculation problems, revise the order of operations for calculations involving the four operations; revise solving missing number problems using inverse operations; revise using trial and improvement to solve equations involving one or two unknowns, and find missing lengths and angles

Revise scaling, using mental strategies for multiplying and dividing; revise solving problems involving rate; revise multiplying pairs of 2-digit numbers and finding factors of 2-digit numbers; multiply 3-digit and 4-digit numbers including decimals by whole 1-digit numbers and solve word problems involving multiplication of money and measures; use a systematic approach to solve problems involving multiplication and division, including long multiplication of 3-digit and 4-digit numbers and decimals

Revise using short division to find unit fractions of amounts, including decimals, and round answers to money problems according to the context; revise using long division to divide 4-digit by 2-digit numbers, giving remainders as a fraction, simplifying where possible; revise using long division to divide 3-digit and 4-digit numbers by numbers between 10 and 30, writing the fractional part of the answer as a decimal where equivalents are known; revise calculating the mean average; revise reading and marking coordinates in all four quadrants, draw simple polygons and find missing coordinates on a polygon or line

ENGLISH (1st half term)

Fiction: stories about imaginary worlds – to include

- Summarise a story.
- Explore characters and describe a character.
- Write sentences using the past tense consistently.
- Identify present and past continuous forms and use in own writing.
- Understand how dialogue is punctuated.
- Write a dialogue between two characters from a book.
- Write the opening paragraph(s) of a story based on one they have read.
- Use paragraphs.
- Write punctuated dialogue correctly.
- Proof-read, edit and improve writing.

Poetry: Traditional poems and performance poems – to include

- Recognise present and past verb tenses in texts.
- Identify past and future forms of given verbs.
- Write complete past or present sentences.
- Define a preposition, identify prepositions of place and write sentences using prepositions.
- Use commas to separate clauses.
- Use conjunctions to express time, place and cause.
- Use apostrophes in contractions and for possession.
- Appreciate how the sounds of words and the rhythm of a poem add to its effectiveness.
- Compare and contrast a range of poems by one poet.
- Learn a poem by heart.

Non-fiction: non-chronological reports – to include

- Rehearse the features of report writing.
- Use extended sentences in writing.
- Use present tense in writing a report.
- Use paragraphs to organise writing.
- Add clauses to extend sentences.
- Use commas appropriately between clauses.
- Use formal language
- Recognise what makes writing effective.
- Use conjunctions.
- Proof-read writing.
- Edit, redraft as necessary and complete a report.

PRIMARY TOPIC PLANNER – Year 6

MATHEMATICS

Revise equivalence simplifying fractions and changing improper fractions into mixed numbers and vice versa; revise adding and subtracting fractions with different denominators, including those which give answers greater than 1; revise multiplying pairs of fractions and multiplying and dividing fractions by whole numbers; solving problems involving ratios; read intermediate points off scales

Revise properties and classification of 2D shapes, drawing 2D shapes using ruler, protractor and compasses, parts of a circle and angles in polygons; revise calculating missing angles by knowing angle facts; use a protractor to measure and draw angles in degrees; identify and name acute, right, obtuse and reflex angles; understand perimeter, area and volume; find the perimeter of rectangles, find the area of rectangles, parallelograms and triangles, and find the volumes of cubes and cuboids; revise reading and interpreting different types of data display

Use mathematical reasoning to investigate and solve problems, and to estimate and predict; solve problems using doubling, solve calculations with enormous numbers; find out about famous mathematicians including Brahmagupta and John Napier and use their different methods to multiply; use lattice multiplication to solve multiplications of 2-, 3- and 4-digit numbers; begin to compare historical multiplication methods

Explore binary numbers; solve mathematical puzzles; including using multiplication facts, find digital roots and look for patterns; explore Fibonacci sequences and Pythagoras' theorem

ENGLISH (2nd half term)

Plays and Dialogue

- Define what a proverb is and how it is used.
- Work out the meaning of some proverbs.
- List features of playscripts.
- Discuss technical vocabulary used in playscripts.
- Discuss words with the /s/ sound spelt as sc.
- Investigate the use of adverbs in playscripts (stage directions).
- Start to write a playscript that incorporates a proverb.
- Define a powerful verb.
- Investigate the use of powerful verbs in playscripts (stage directions).
- Rehearse and perform a playscript written by another group.
- Use stage directions.
- Understand how a character is created using description, stage directions and speech.
- Use a range of facial expressions.
- Understand how dialogue can emphasise a character's personality.
- Improvise a dialogue between two given characters.
- Recognise the use of speech marks, commas, full stops and capital letters in dialogue.
- Find powerful verb alternatives for 'said' in dialogues.