

INVENTORS AND INVENTIONS – YEAR 3 & 4

GEOGRAPHY

To use field work to explore the local environment

DT (Design and Technology) Woodwork & Electronics

To follow a design criteria
To use appropriate materials
To work accurately to make holes and cuts
To join materials
To use a simple circuit in a product
To learn about how to program a computer to control product.

PSHE

To state possible physical and emotional reactions to different risks
To develop decision making strategies for risky situations
To understand that pressure to act in a risky way might come from people they know
To be able to suggest known and unknown people they would ask for help in risky situations
To identify further benefits and risks with road traffic have strategies to stay safer and get help
To identify further benefits and risks of being near water and have strategies to stay safer and get help

MUSIC

To create and compose music individually
To create and compose music with others
To use technology appropriately
To understand the features of a musical instrument

HISTORY

To describe changes that have happened give reasons for those changes
To explain how events from the past have helped shape our lives today
To describe connections and contrasts between events and people in history
To present, communicate and organise ideas about the past using models, drama, letters, recounts, adverts diaries and posters
To suggest why certain events happened as they did in history and why certain people acted as they did in history.

YEAR 3 & 4 SUMMER TERM 1 TOPIC 2022 INVENTORS AND INVENTIONS

ART

To develop the use of symmetry
To explore the work of a range of artists, craft makers, designers and architects in history as well as the present, describing the differences and similarities between different practises and disciplines and, making links to their own work
To complete detailed observation and design of textual art
To apply simple use of pattern and texture in a drawing.
To record samples of patterns
To design & create a pattern for textile/wall paper design

RE (Religious Education)

Religions from around the world

To explain where Islam was founded and who founded the Muslim faith
To explain the main beliefs in Judaism
To explain which places are special to Hindus
To explain what happens at the major Buddhist festival
To explain what happens at the major Buddhist festival
To understand how the Bible is organised and can navigate my way around it

PE (Physical Education)

To conduct team sports (rounders) and to take part in athletics (running, skipping, jumping)
To begin swimming sessions

SCIENCE

Living Things

To recognise that living things can be grouped in a variety of ways
To recognise that living things can be grouped in a variety of ways according to their feature (plants)
To explore and use classification keys to help group, identify and name a variety of living things in their local and wider environment
To explore and use classification keys to help group, identify and name a variety of living things in their local and wider environment
Discover the features of different groups of vertebrates, researching fish and amphibians in more detail
To recognise that living things can be grouped in a variety of ways
To recognise that living things can be grouped in a variety of ways
To report on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions

COMPUTING

To use PowerPoint and word processing skills to present information
To use Google online software for documents, presentations, forms and presentations and spreadsheets
To work collaboratively with others

FRENCH

To learn nouns associated with food from the *Hungry Caterpillar* story and construct sentences (written and spoken)
To record descriptive sentences when using a word bank
To recognise the main word classes e.g nouns, adjectives and verbs
To learn and remember new words encountered in reading

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MATHEMATICS (1st half term)

Number – addition & subtraction:

Add 3-digit and 1-digit numbers mentally, using number facts; subtract 1-digit numbers from 3-digit numbers mentally using number facts; add and subtract multiples of 10 by counting on and back in 10s and using number facts to cross 100s;

Add 3-digit and 2-digit numbers using mental strategies; add two 3-digit numbers using mental strategies or by using column addition; use reasoning, trial and improvement to solve problems involving more complex addition

Solve subtractions of 3-digit numbers using counting up on a line and work systematically to find possibilities; choose an appropriate strategy to solve addition or subtraction

Number - fractions:

Compare and order fractions with the same denominator; begin to recognise equivalences of $\frac{1}{2}$; add and subtract fractions with the same denominator

Recognise tenths and equivalent fractions; find one-tenth and several tenths of multiples of 10 and begin to find one-tenth of single-digit numbers

Number – multiplication & division:

Use function machines to multiply by 2, 3, 4, 5 and 8 and understand the inverse; use scaling to multiply heights and weights by 2, 4, 8, 5 and 10; use known facts to multiply multiples of 10 by 2, 3, 4 and 5; multiply numbers between 10 and 30 by 3, 4 and 5 using the grid method; multiply 2-digit numbers by 3, 4, 5 and 8 using the grid method

Divide without remainders, just beyond the 12th multiple; division using chunking, with remainders; use the grid method to multiply 2-digit numbers by 3, 4, 5 and 8; begin to estimate products

ENGLISH (1st & 2nd half term)

Reading:

Reading books that are structured in different ways and reading for a range of purposes

Using dictionaries to check the meaning of words that they have read
Increasing their familiarity with a wide range of books, including fairy stories, myths and legends, and retelling some of these orally

Identifying themes and conventions in a wide range of books

Preparing poems and play scripts to read aloud and to perform, showing understanding through intonation, tone, volume and action discussing words and phrases that capture the reader's interest and imagination

Recognising some different forms of poetry [for example, free verse, narrative poetry]

Reading Comprehension:

Understand what they read, in books they can read independently, by: checking that the text makes sense to them, discussing their understanding, and explaining the meaning of words in context

Asking questions to improve their understanding of a text

Drawing inferences such as inferring characters' feelings, thoughts and motives from their actions, and justifying inferences with evidence

Predicting what might happen from details stated and implied

Identifying main ideas drawn from more than 1 paragraph and summarising these

Identifying how language, structure, and presentation contribute to meaning

Retrieve and record information from non-fiction

Participate in discussion about both books that are read to them and those they can read for themselves, taking turns and listening to what others say

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MATHEMATICS (2nd half term)

Interpreting Data:

Draw and interpret bar charts and pictograms where one square/symbol represents two units and where one square/ symbol represents one hundred units

Measurement (kilograms and grams):

Compare and measure weights in multiples of 100g; know how many grams are in a kilogram; estimate and weigh objects to the nearest 100g;

Shape - angles and symmetry in 2D shapes:

Identify, name and draw horizontal, vertical, perpendicular, parallel and diagonal lines in 2D shapes

Measure the perimeter of 2D shapes by counting and measuring with a ruler

Measurement – time (analogue & digital clock)

Tell the time on analogue and digital clocks to the minute, begin to tell the time 5, 10, 20 minutes later, recognise am and pm and 24-hour clock times

Number – multiplication & division:

Use the grid method to multiply 2-digit numbers by 3, 4, 5, 6 and 8; estimate products

Divide using chunking, with and without remainders; decide whether to use multiplication or division to solve word problems

Multiply numbers between 10 and 40 by 1-digit numbers using grid method; solve division problems just beyond the known 'tables' facts

Number addition & subtraction:

Revise column addition for adding three 3-digit numbers; revise mental strategies for addition; subtract 3-digit numbers using written and mental methods; find change using counting up; check subtraction using addition

ENGLISH (1st & 2nd half term)

Grammar:

Extending the range of sentences with more than one clause by using a wider range of conjunctions, including: when, if, because, although
Using the present perfect form of verbs in contrast to the past tense
Choosing nouns or pronouns appropriately for clarity and cohesion and to avoid repetition

Using conjunctions, adverbs and prepositions to express time and cause
Using fronted adverbials

Use apostrophes correctly to show either contraction or possession

Use commas correctly in extended sentences

Poetry to Express Emotion

Read and respond to a variety of poems

Prepare a collective performance of a poem

Understand and use speech punctuation

Plan and write a poem based on one read

Edit and modify a draft of a poem

Writing:

Non Fiction: Leaflets, posters and reports relating to *Modern Europe* topic

Read and respond to a variety of reports

Compare report texts and descriptive writing

Revise features of report writing

Practise researching and note-making

Plan and write a report using the features and structure of a non-chronological report

Read instructions and find the features of an instructional text

Understand the differences between instructions and explanations

Write a set of instructions

Fiction:

Recognise the structure of adventure stories

Write a dialogue between characters

Plan and write settings for a story

Use simple, compound and complex sentences

Write a story based on one read