



The Creative Learning Journey Apple- Eureka!

Final Event: Upper School Class
Museum- open to Lower School



UNDERSTANDING THE WORLD

Working scientifically LKS2

- sc32 asking relevant questions and using different types of scientific enquiries to answer them
- sc33 setting up simple practical enquiries, comparative and fair tests
- sc34 making systematic and careful observations and, where appropriate, taking accurate measurements using standard units, using a range of equipment, including thermometers and data loggers
- sc35 gathering, recording, classifying and presenting data in a variety of ways to help in answering questions
- sc36 recording findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables
- sc37 reporting on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions
- sc38 using results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions
- sc39 identifying differences, similarities or changes related to simple scientific ideas and processes
- sc40 using straightforward scientific evidence to answer questions or to support their findings.

Light LKS2

- sc50 recognise that they need light in order to see things and that dark is the absence of light
- sc51 notice that light is reflected from surfaces
- sc52 recognise that light from the sun can be dangerous and that there are ways to protect their eyes
- sc53 recognise that shadows are formed when the light from a light source is blocked by a solid object
- sc54 find patterns in the way that the size of shadows change.

States of matter LKS2

- sc67 compare and group materials together, according to whether they are solids, liquids or gases
- sc68 observe that some materials change state when they are heated or cooled, and measure or research the temperature at which this happens in degrees Celsius (°C)

Sound LKS2

- sc70 identify how sounds are made, associating some of them with something vibrating
- sc71 recognise that vibrations from sounds travel through a medium to the ear
- sc72 find patterns between the pitch of a sound and features of the object that produced it
- sc73 find patterns between the volume of a sound and the strength of the vibrations that produced it
- sc74 recognise that sounds get fainter as the distance from the sound source increases.

Working scientifically UKS2

- sc80 planning different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary
- sc81 taking measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate
- sc82 recording data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs
- sc84 reporting and presenting findings from enquiries, including conclusions, causal relationships and explanations of and degree of trust in results, in oral and written forms such as displays and other presentations

Properties and changes of materials UKS2

- sc89 compare and group together everyday materials on the basis of their properties, including their hardness, solubility, transparency, conductivity (electrical and thermal), and response to magnets
- sc90 know that some materials will dissolve in liquid to form a solution, and describe how to recover a substance from a solution
- sc93 demonstrate that dissolving, mixing and changes of state are reversible changes
- sc94 explain that some changes result in the formation of new materials, and that this kind of change is not usually reversible, including changes associated with burning and the action of acid on bicarbonate of soda.

MATHEMATICS AND COMPUTING

LKS2

- co27 I can use a variety of digital devices (including the internet) to create programs to collect, analyse and evaluate data
- co28 I can use a variety of software to present data and information (including combining images and text, multi-media presentations and data-bases)

UKS2

- co44 I can use a variety of digital devices (including the internet) to create programs to collect, analyse and evaluate data
- co45 I can use a variety of software to present data and information (including combining images and text, multi-media presentations and data-bases)

PSED & RELIGIOUS EDUCATION

Learning About Religion LKS2

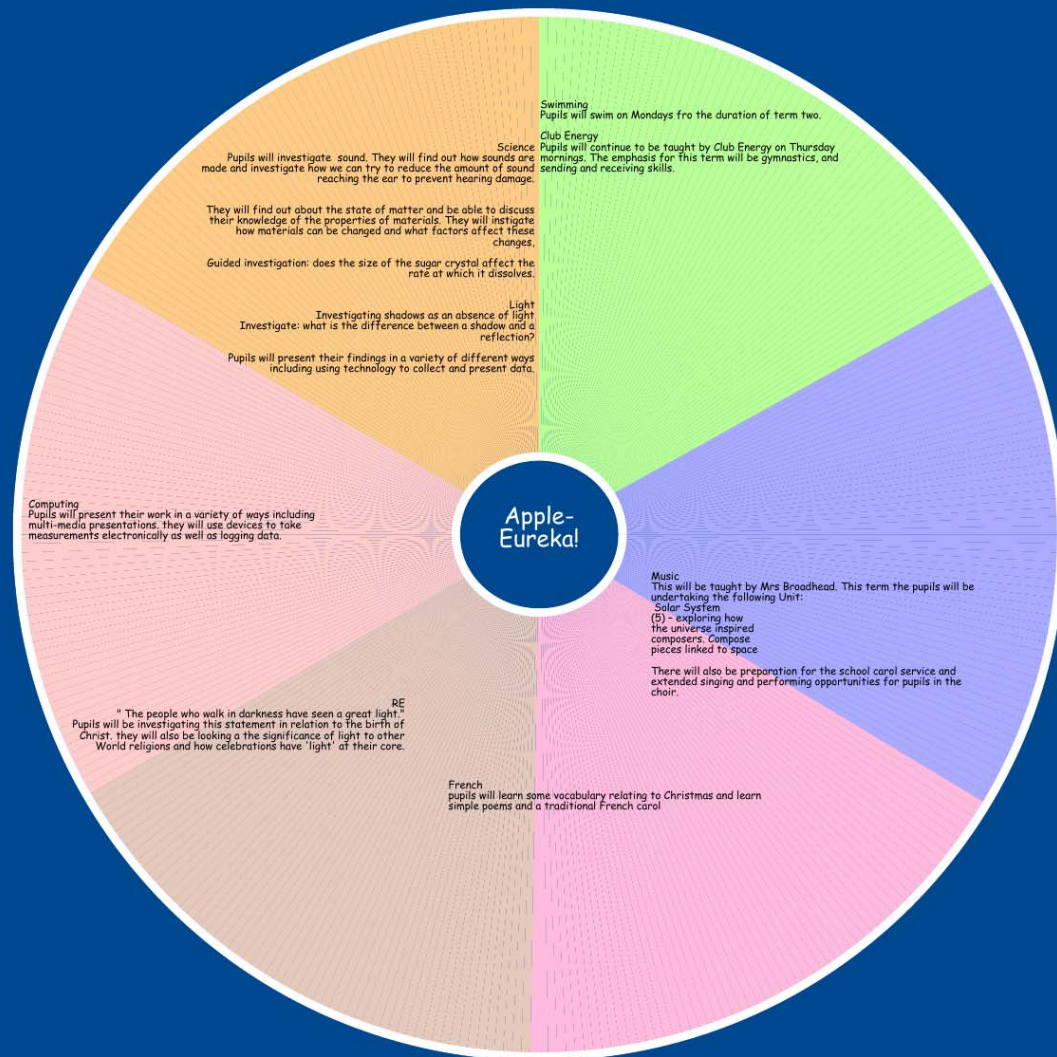
- ra19 Begin to describe the key aspects of religions, especially the people, stories and traditions that influence the beliefs and values of others.
- ra21 Identify and begin to describe the similarities in religions.
- ra24 Begin to learn specialist vocabulary to communicate their knowledge and understanding.
- ra25 Begin to use information about religions from a range of sources.

RE - Learning From Religion UKS2

- rf32 Discuss and express their own and others' religious beliefs, including wonder.

Learning About Religion UKS2

- ra35 Describe the practices and ways of life in religions and understand how these stem from beliefs and teachings.
- ra36 Identify and begin to describe the similarities in religions.
- ra37 Describe differences between religions.
- ra39 Consider the meaning of a range of forms of religious expression and understand why they are important.
- ra43 Use specialist vocabulary to communicate their knowledge and understanding.
- ra44 Use and interpret information about religions from a range of sources including ICT.



PHYSICAL EDUCATION

LKS2

- pe6.1 I can perform fluent gymnastics sequences to demonstrate my control and balance.
- pe10 I can swim unaided in a recognised style over a distance of 25m
- pe10.1 I can swim at least two strokes in a recognised style

UKS2

- pe13.1 I can perform fluent gymnastics sequences to demonstrate my control and balance
- pe17 I can swim unaided in a recognised style over a distance of 25m
- pe17.1 I can swim at least two strokes in a recognised style

EXPRESSIVE ARTS AND DESIGN

LKS2

- mu11 I can sing in a group, or on my own, with expression, awareness of others and in tune
- mu12 I can play instruments with accuracy and control

- mu14 I can compose pieces of music for a specific purpose, choosing and combining sounds to achieve the effect I desire
- mu16 I can listen carefully and perform accurately from memory

COMMUNICATION AND LANGUAGE

LKS2

- fl1 I can understand what is being said to me and respond correctly
- fl2 I can sing songs and say poems in another language and know what the words mean

- fl4 I can speak in grammatically correct sentences
- fl5 I can pronounce words correctly so that I am understood

OUTDOOR LEARNING

Outdoor Learning

- Apple Class will continue to work with pupils from Bardwell School in a range of inclusive activities.



MATHEMATICS AND COMPUTING

- Number - number and place value LKS2**
- m18 count backwards through zero to include negative numbers
 - m20 order and compare numbers beyond 1000
- Number - addition and subtraction LKS2**
- m25 add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate
 - m127 solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why.
- Number - multiplication and division LKS2**
- m31 multiply two-digit and three-digit numbers by a one-digit number using formal written layout
- Number - fractions (including decimals) LKS2**
- m33 recognise and show, using diagrams, families of common equivalent fractions
 - m35 solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number
 - m36 add and subtract fractions with the same denominator
- Measurement LKS2**
- m143 Convert between different units of measure [for example, kilometre to metre, hour to minute]
 - m146 estimate, compare and calculate different measures, including money in pounds and pence
 - m148 solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days.
- Geometry - position and direction LKS2**
- m153 describe positions on a 2-D grid as coordinates in the first quadrant
- LKS2**
- co24 I can use search technologies effectively
 - co25 I am aware that information from some sources may not be accurate
 - co28 I can use a variety of software to present data and information (including combining images and text, multi-media presentations and data-bases)
- Number - number and place value UKS2**
- m159 count forwards or backwards in steps of powers of 10 for any given number up to 1 000 000
 - m160 interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero
- Number - addition and subtraction UKS2**
- m166 use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy
 - m167 solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.
- Number - multiplication and division UKS2**
- m171 multiply numbers up to 4 digits by a one- or two-digit number using a formal written method, including long multiplication for two-digit numbers
 - m172 multiply and divide numbers mentally drawing upon known facts
 - m173 divide numbers up to 4 digits by a one-digit number using the formal written method of short division and interpret remainders appropriately for the context
 - m174 multiply and divide whole numbers and those involving decimals by 10, 100 and 1000
- Number - fractions (including decimals and percentages) UKS2**
- m179 compare and order fractions whose denominators are all multiples of the same number
 - m180 identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths
 - m181 recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements > 1 as a mixed number [for example, $2\frac{1}{5} = \frac{11}{5} = 6\frac{1}{5} = 1\frac{1}{5}$]
 - m182 add and subtract fractions with the same denominator and denominators that are multiples of the same number
- Measurement UKS2**
- m191 convert between different units of metric measure (for example, kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre)
 - m192 understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints
- Geometry - properties of shapes UKS2**
- m198 identify 3-D shapes, including cubes and other cuboids, from 2-D representations
 - m206 distinguish between regular and irregular polygons based on reasoning about equal sides and angles.
- UKS2**
- co42 I am aware that information from some sources may not be accurate
 - co43 I understand that some sources are biased
 - co45 I can use a variety of software to present data and information (including combining images and text, multi-media presentations and data-bases)

- Year 4**
- Number and Place Value**
- order and compare numbers beyond 1000
 - Addition and Subtraction
 - solve addition and subtraction two-step problems in contexts deciding which operations and methods to use and why.
 - Multiplication and Division.
 - solve problems involving multiplying and dividing
 - practise mental methods for two digit by one digit multiplication and division.
- Fractions**
- recognise and show, using diagram, families of common equivalent fractions.
 - add and subtract fractions with the same denominator
- Measurement**
- convert between different units of measure using multiplication and division.
 - solve problems converting units of time.
- Geometry-shape**
- compare and classify geometric shapes.
 - compare lengths and angles to see if polygons are regular or irregular
- Geometry- position and direction**
- describe positions on a 2d grid as coordinates in the first quadrant
- Year 5**
- Number and Place Value**
- interpret negative numbers in context
 - Addition and Subtraction
 - use rounding to check answers to calculations.
- Multiplication and Division**
- Solve problem involving addition, subtraction and multiplication.
- Fractions**
- identify, name and write equivalent fractions represented visually.
 - compare and order fractions with denominators that are all multiples of the same number
- Recognise mixed numbers of improper fractions**
- add and subtract fractions with the same denominators or multiples thereof.
- Measurement**
- convert between different units of measurement
- Geometry-shape**
- identify 3d shapes from 2d representations
 - distinguish between regular and irregular polygons based on reasoning about equal sides and angles.
 - read, write and use pairs of coordinates.
- Computing Years 4 and 5**
- Pupils will use computing to present their work in a variety of ways including multi-media presentations.

Apple-English and Maths Term 2

Non-fiction writing
non-chronological reports
explanation texts
information texts
Pupils will work on identifying the relevant features of the text types particularly the organisation of text into logical paragraphs where appropriate.

They will write explanation texts and about the investigations they have carried out in science through the Eureka topic. They will also write non-chronological reports about properties of materials.

They will write information texts linked to the study of festivals of light in RE

SpAG
Revise use of capital letters for proper nouns
Plurals including irregular examples
Apostrophes of contraction and omission
prefixes and suffixes
adverbial clauses

LITERACY

- Reading - word reading LKS2**
- e136 read further exception words, noting the unusual correspondences between spelling and sound, and where these occur in the word.
- Reading - comprehension LKS2**
- e139 reading books that are structured in different ways and reading for a range of purposes
 - e143 preparing poems and play scripts to read aloud and to perform, showing understanding through intonation, tone, volume and action
 - e153 retrieve and record information from non-fiction
- Writing - transcription - Spelling LKS2**
- e155 use further prefixes and suffixes and understand how to add them (English Appendix 1)
 - e158 place the possessive apostrophe accurately in words with regular plurals [for example, girls', boys'] and in words with irregular plurals [for example, children's]
- Writing - composition LKS2**
- e164 discussing writing similar to that which they are planning to write in order to understand and learn from its structure, vocabulary and grammar
 - e165 discussing and recording ideas
 - e167 composing and rehearsing sentences orally (including dialogue), progressively building a varied and rich vocabulary and an increasing range of sentence structures (English Appendix 2)
 - e168 organising paragraphs around a theme
 - e174 proof-read for spelling and punctuation errors
- Writing - vocabulary, grammar and punctuation LKS2**
- e177 extending the range of sentences with more than one clause by using a wider range of conjunctions, including when, if, because, although
 - e179 choosing nouns or pronouns appropriately for clarity and cohesion and to avoid repetition
 - e180 using conjunctions, adverbs and prepositions to express time and cause
 - e185 indicating possession by using the possessive apostrophe with plural nouns
- Reading - word reading UKS2**
- e200 apply their growing knowledge of root words, prefixes and suffixes (morphology and etymology), as listed in English Appendix 1, both to read aloud and to understand the meaning of new words that they meet.
- Reading - comprehension UKS2**
- e203 reading books that are structured in different ways and reading for a range of purposes
 - e206 identifying and discussing themes and conventions in and across a wide range of writing
 - e207 making comparisons within and across books
 - e209 preparing poems and plays to read aloud and to perform, showing understanding through intonation, tone and volume so that the meaning is clear to an audience
 - e215 summarising the main ideas drawn from more than one paragraph, identifying key details that support the main ideas
 - e216 identifying how language, structure and presentation contribute to meaning
 - e217 discuss and evaluate how authors use language, including figurative language, considering the impact on the reader
- Writing - transcription - Spelling UKS2**
- e223 use further prefixes and suffixes and understand the guidance for adding them
 - e225 continue to distinguish between homophones and other words which are often confused
- Writing - handwriting and presentation UKS2**
- e230 write legibly, fluently and with increasing speed by:
 - e231 choosing which shape of a letter to use when given choices and deciding whether or not to join specific letters
 - e232 choosing the writing implement that is best suited for a task
- Writing - composition UKS2**
- e234 identifying the audience for and purpose of the writing, selecting the appropriate form and using other similar writing as models for their own
 - e235 noting and developing initial ideas, drawing on reading and research where necessary
 - e241 using a wide range of devices to build cohesion within and across paragraphs
- Writing - vocabulary, grammar and punctuation UKS2**
- e254 using expanded noun phrases to convey complicated information concisely
 - e256 using relative clauses beginning with who, which, where, when, whose, that or with an implied (i.e. omitted) relative pronoun