

Year 4 — Curriculum

Our key curriculum drivers: COMMUNICATION, HEALTH & Well-Being & OUR SCHOOL VALUES

DESIGN TECHNOLOGY

National curriculum:

DEVELOPING, PLANNING & COMMUNICATING IDEAS

-Generate ideas, considering the purposes for which they are designing

- -Make labelled drawings from different views showing specific features
- -Develop a clear idea of what has to be done, planning how to use materials, equipment and processes, and suggesting alternative methods of making, if the first attempts fail
- -Evaluate products and identify criteria that can be used for their own designs

WORKING WITH TOOLS, EQUIPMENT, MATERIALS & COMPONENTS TO MAKE QUALITY PRODUCTS

- -Select appropriate tools and techniques for making their product
- -Measure, mark out, cut and shape a range of materials, using appropriate tools, equipment and techniques
- -Join and combine materials and components accurately in temporary and permanent ways -Sew using a range of different stitches, weave and knit
- -Measure, tape or pin, cut and join fabric with some accuracy
- -Use simple graphical communication techniques

EVALUATING PROCESSES & PRODUCTS

- -Evaluate their work both during and at the end of the assignment
- -Evaluate their products carryingoutappropriatetests

MUSIC

National curriculum:

SINGING SONGS WITH CONTROL AND SINGING EXPRESSIVELY

- -Sing with confidence using a wider vocal range.
- -Sing intune.
- -Sing with awareness of pulse and control of rhythm.
- -Recognise simple structures. (Phrases).
- -Singexpressively with awareness and control at the expressive elements. E.g. timbre, tempo, dynamics.
- -Sing songs and create different vocal effects.
- -Understand how mouth shapes can affect voice sounds. Internalise sounds by singing parts of a song 'in their heads.'

LISTENING. MEMORY & MOVEMENT

- Identify melodic phrases and play them by ear.
- -Create sequences of movements in response to sounds.
 -Explore and chose different movements to describe animals.

-Demonstrate the ability to recognise the use of structure and expressive elements throughdance.

-Identify phrases that could be used as an introduction, interlude and ending.

CONTROLLING PULSE & RHYTHM

-Recognise rhythmic patterns.

Perform a repeated pattern to a steady pulse.
Identify and recall rhythmic and melodic patterns.
Identify repeated patterns used in a variety of music.
(Ostinato).

EXPLORING SOUNDS, MELODY & ACCOMPANIMENT

- -Identify ways sounds are used to accompany a song.

 -Analyse and comment on how sounds are used to create different moods.
- -Explore and perform different types of accompaniment.
- -Explore and select different melodic patterns.
- -Recognise and explore different combinations of pitch sounds.

CONTROL OF INSTRUMENTS

- Identify melodic phrases and play them by ear.
- -Select instruments to describe visual images.
- -Choose instruments on the basis of internalised sounds.

COMPOSITION

Create textures by combining sounds in different ways.
Create music that describes contrasting moods/emotions.
Improvise simple tunes based on the pentatonic scale.
Compose music in pairs and make improvements to their own work.

Create an accompaniment to a known song.
Create descriptive music in pairs or small groups.

READING & WRITING NOTATION

- -Perform long and short sounds in response to symbols.
- -Create long and short sounds on instruments.
- -Play and sing phrase from dot notation
- -Record their own ideas.
- -Make their own symbols as part of a class score.

PERFORMANCE SKILLS

-Performindifferentways,exploring the way the performers area musical resource.

-Perform with awareness of different parts.

EVALUATING & APPRAISING

Recognise how music can reflect different intentions.

PSHE

Autumn 1: Resilience: Make me a superhero

Autumn 2: Citizenship: Rights, rules & responsibilities

Spring 1: Mental health

Spring 2: Relationship & sex-education

Summer 1: Facts4life

Summer 2: Myself and my relationships: Managing change

ART

National curriculum:

EXPLORING & DEVELOPING IDEAS

- -Select and record from first hand observation, experience and imagination, and explore ideas for different purposes.
- -Questionand make thoughtful observations about starting points and select ideas to use in theirwork.
- -Exploretherolesandpurposes of artists, craftspeople and designersworking in different times and cultures.

EVALUATING & DEVELOPING WORK

-Compare ideas, methods and approaches in their own and others' work and say what they think and feel about them.
-Adapt their work according to their views and describe how they might develop it further.

DRAWING

- -Make informed choicesin drawing inc. paper and media. Alter and refine drawings and describe changes using art vocabulary.
- -Collect images and information independently in a sketch-book
- -Use research to inspire drawings from memory and imagination
- -Explore relationships between line and tone, pattern and shape, line and texture.

PAINTING

- -Make and match colours with increasing accuracy.
 -Use more specific colour language e.g. tint, tone, shade, hue
- -Choose paints and implements appropriately.
- -Plan and create different effects and textures with paint according to what they need for the task.
- -Show increasing independence and creativity with the painting process.

PRINTING

- -Research, create and refine a print using a variety of techniques.
- -Select broadly the kinds of material toprintwith inorder to get the effect they want
- -Resist printing including marbling, silkscreen and coldwater paste.

TEXTILES / COLLAGE

- -Match the tool to the material.
- -Combine skills more readily.
- -Choose collage or textiles as a means of extending work already achieved.
- -Refine and alter ideas and explain choices using an art vocabulary.
- -Collect visual information from a variety of sources, describing with vocabulary based on the visual and tactile elements.
- -Experiments with paste resist

3D FORM

- -Make informed choices about the 3D technique chosen.
- -Show an understanding of shape, space and form.
- -Plan, design, make and adapt models.
- -Talk about their work understanding that it has been sculpted, modelled or constructed.
- -Use a variety of materials.

BREADTH OF STUDY

- -Work on their own, and collaboratively with others, on projects in 2 and 3 dimensions and on different scales. -Use ICT.
- -Investigate art, craft and design in the locality and in a variety of genres, styles and traditions.





GEOGRAPHY

National curriculum

GEOGRAPHICAL ENQUIRY

Askandrespond to questions and offer their own ideas.

-Extendtosatelliteimages, aerial photographs

-Investigate places and themes at more than one scale

-Collect and record evidence with some aid

-Analyse evidence and draw conclusions e.a. make comparisons betweenlocations photos/pictures/ maps

DIRECTION / LOCATION

-Use 4 compass points well:

-Begin to use 8 compass points;

-Use letter/no. co-ordinates to locate features on a map confidently.

DRAWING MAPS

-Make a map of a short route experienced, with features in correct order;

-Make a simple scale drawing.

REPRESENTATION

-Know why a key is needed.

-Begintorecognisesymbols on an OS map.

USING MAPS

-Locate places on large scale maps, (e.g. Find UK or India on alobe)

-Follow a route on a large scale map.

SCALE / DISTANCE

Begin to match boundaries (E.g. find same boundary of a county on different scale maps.)

PERSPECTIVE

Draw a sketch map from a high view point.

MAP KNOWLEDGE

Begin to identify significant places and environments

STYLE OF MAP

Use large and medium scale OS maps.

Use junioratlases.

Use map sites on internet.

Identify features on aerial/obliquephotographs.

HISTORY

National curriculum:

CHRONOLOGICAL UNDERSTANDING

- -Place events from period studied on time line -Use terms related to the period and begin to date events
- -Understandmore complex terms eq BC/AD

RANGE & DEPTH OF HISTORICAL KNOWLEDGE

- -Use evidence to reconstruct life in time studied Identify key features and events of time studied -Look for links and effects in time studied -Offer a reasonable explanation for some events
 - INTERPRETATIONS OF HISTORY

Look at the evidence available

-Begin to evaluate the usefulness of different sources -Usetextbooksandhistorical knowledge

HISTORICAL ENQUIRY

- -Use evidence to build up a picture of a past event
- -Choose relevant material to present a picture of one aspect of life in time past
- -Ask a variety of questions
- -Usethelibrary and internet for research

ORGANISATION & COMMUNICATION

- -Recall, select and organise historical information
- -Communicate their knowledge and understanding.

RF

THINKING ABOUT RELIGION & BELIEF

- -Describe the impact of beliefs and practices on individuals, groups and
- Describe similarities and differences within and between religions and beliefs.

ENQUIRING, INVESTIGATING & INTERPRETING

- -Gather, select, and organise ideas about religion and belief. -Suggest answers to some questions raised by the study of religions
- -Suggest meanings for a range of forms of religious expression, using appropriate vocabulary

BELIEFS & TEACHINGS

Describe the key beliefs and teachings of the religions studied, connecting them accurately with other features of the religions making some comparisons between religions

PRACTICES & LIFESTYLE

Show understanding of the ways of belonging to religions and what these involve

EXPRESSION & LANGUAGE

-Show, using technical terminology, how religious beliefs, ideas and feelings can be expressed in a variety of forms, giving meanings for some symbols, stories and language

IDENTIFY & EXPERIENCE

-Ask questions about the significant experiences of key figures from religions studied and suggest answers from own and others' experiences, including believers

MEANING & PURPOSE

-ask questions about puzzling aspects of life and experiences and suggest answers, making reference to the teaching of religions studied

VALUES & COMMITMENTS

-Ask questions about matters of right and wrong and suggest answers hat show understanding of moral and religious issues

SCIENCE

WS1 making decisions, asking relevant questions and using different types of scientific enquiries to answer them

WS2 setting up simple practical enquiries, comparative and fair tests

W53 making systematic and careful obs using notes and simple tables

WS4 taking accurate measurements using std units, using a range of equipment, inlo thermometers and data loggers

WS5 gathering, recording, classifying and presenting data in a variety of ways to help in answering questions

WS6 recording findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables

WS7 reporting on findings from enquiries, using relevant scientific language, including oral and written explanations, displays or presentations of results and conclusions

WS8 using results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions

WS9 identifying differences, patterns, similarities or changes related to simple scientific ideas and processes

WS10 using straightforward scientific evidence to answer questions or to support their findings.

WS11 begin to look for naturally occurring patterns and relationships

W512 recognise when and how secondary sources might help them to answer questions that cannot be answered through practical investigations.

LIVING THINGS AND THEIR HABITATS

LH1 recognise that living things (incl those I the locality) can be grp in a variety of

LH2 explore and use classification keys to help grp, identify and name a variety of living things in their local and wider environment

LH3 recognise that environments can change and that this can sometimes pose dangers to living things

ANIMALS, INCLUDING HUMANS

AH1 describe the simple functions of the basic parts of the digestive sys-

AH2 identify the different types of teeth in humans and their simple functions

AH3 construct and interpret a variety of food chains, identifying producers, predator and prey

STATES OF MATTER

SM1 explore a variety of everyday materials and develop simple descriptions for states of matter

SM2 compare and grp materials together, according to whether they are solid, liguids or gases

SM3 observe that some materials change state when they are heated, cooled, and measure or research the temperature at which this happens in degrees Celsius SM4 identify the part played by evaporation and condensation in the water cycle and associate the rate of evaporation with temperature

SOUND

SC3 find patterns between pitch of a sound and features of the object that pro-

SC4 find patterns between the volume of a sound and the strength of the vibrations that produced it

SC5 recognise that sound gets fainter as the distance from the sound source increases

ELECTRICITY

E1 identify common appliances that run on electricity

E2 construct a simple series circuit, identify/naming its basic pats, incl cell, wire, bulb, switch, and buzzer

E3 use their circuits to create a simple device

E4 draw the circuit as a pictorial representation (not necessarily using conventional circuit symbols)

E5 about precautions for working safely with electricity

E6 identify whether or not a lamp will light in a simple circuit

E7 recognise that a switch opens and closes a circuit and associate this with whether or not a lamp lights in a simple series circuit

E8 recognise some common conductors and insulators, and associate metals with being good conductors

COMPUTING

National curriculum

TEXT & MULTIMEDIA

-Generate their own work, (with help where appropriate with multimedia) combining text, graphics and sound.

Save and retrieve and edit their work.

DIGITAL IMAGES

-Use a range of tools in a paint package

/image manipulation software to create / modify a picture to communicate an idea.

-Create a simple animation to tell a story.

SOUND & MUSIC

-Compose music fromicons.

-Produce a simple presentation incorporating sounds the childrenhave captured, or created.

ELECTRONIC COMMUNICATION

Work collaboratively by email to share and request information of another class or story character.

RESEARCH & E-SAFETY

Children use a search engine to find specific relevant information to use in a presentation for atopic. -They save and retrieve their work.

CONTROL (ALGORITHMS)

Control a device, on and off screen, making predictions about the effect their programming will have.

-Children can plan ahead.

HANDLING INFORMATION

-Use a graphing package to collect, organise and classify data, selecting appropriate tools to create a graph and answer

. -Enter information into a simple branching database, database or word processor and use it to answer questions.

They save, retrieve and edit their work.

MODELLING & SIMULATIONS

Children are able to play an adventure game and use a simple simulation, making choices and observing the results. -Their conversation shows they understand that computers are good at replicating real life events and allowing them to explore contexts that are otherwise notpossible.

UNDERSTANDING TECHNOLOGIES

Show an awareness of a range of inputs to a computer (IWB, mouse touch screen, microphone, keyboard, etc)

UNDERSTANDING NETWORKS

Begin to show an awareness that computers can be linked to share resources



MATHS	
WRITTEN (+/-)	DECIMALS AS FRACTIONAL AMOUNTS
-Add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate	-Recognise and write decimal equivalents of any number of tenths or hundredths -Recognise and write decimal equivalents to $\frac{1}{4}$, $\frac{1}{2}$ and $\frac{3}{4}$ -Find the effect of dividing a one- or two-digit number by 10 and 100, identifying the value of the digits in the answer as ones, tenths and hundredths ORDERING DECIMALS -Round decimals with one decimal place to the nearest whole number -Compare numbers with the same number of decimal places up to two decimal places
PROBLEMS (+/-) -Estimate and use inverse operations to check answers to a calculation -Solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why	MEASURES -Convert between different units of measure estimate, compare and calculate different measures, including money in pounds and pence -Measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres find the area of rectilinear shapes by counting
NUMBER FACTS (x/÷) -Recall multiplication and division facts for multiplication tables up to 12 × 12	PROPERTIES OF 2-D SHAPE -Compare and classify geometric shapes, including quad- rilaterals and triangles, based on properties and sizes -Identify lines of symmetry in 2-D shapes presented in different orientations -Complete a simple symmetric figure with respect to a specific line
MENTAL (x/÷)	ANGLES
-Use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1: multiplying together three numbers -Recognise and use factor pairs and commutativity in mental calculations	-Identify acute and obtuse angles and compare and order angles up to two right angles by size
WRITTEN (x/÷)	POSITION & DIRECTION
-Multiply two-digit and three-digit numbers by a one- digit number using formal written layout	-Describe positions on a 2-D grid as coordinates in the first quadrant -Describe movements between positions as transla- tions of a given unit to the left/right and up/down -Plot specified points and draw sides to complete a given polygon
PROBLEMS (x/+) -Solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which n objects are connected to m objects.	INTERPRETING DATA -Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs
RECOGNISING FRACTIONS -Count up and down in hundredths; -Recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten.	EXTRACT INFORMATION FROM DATA -Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs
COMPARING FRACTIONS -Recognise and show, using diagrams, families of common equivalent fractions	

Year 4 — Curriculum

ENGLISH WRITING

PHONIC & WHOLE WORD SPELLING

-Spell further homophones -Spell words that are often misspelt (Appendix 1)

OTHER WORD BUILDING SPELLING

- -Use further prefixes and suffixes and understand how to add
- -Place the possessive apostrophe accurately in words with regular plurals and in words with irregular plurals
- -Use the first 2 or 3 letters of a word to check its spelling in a dictionary

TRANSCRIPTION

-Write from memory simple sentences, dictated by the teacher, that include words and punctuation taught so far.

HANDWRITING

-Use the diagonal and horizontal strokes that are needed to join letters and understand which letters, when adjacent to one another, are best left unjoined

-Increase the legibility, consistency and quality of their hand-

CONTEXTS FOR WRITING

-Discussing writing similar to that which they are planning to write in order to understand and learn from its structure, vocabulary and grammar

PLANNING WRITING

- -Discussing and recording ideas
- -Composing and rehearsing sentences orally (including dialogue), progressively building a varied and rich vocabulary and an increasing range of sentence structures

DRAFTING WRITING

- -Organising paragraphs around a theme
- -In narratives, creating settings, characters and plot
- -In non-narrative material, using simple organisational devices (headings & subheadings)

EDITING

- -Assessing the effectiveness of their own and others' writing and suggesting improvements
- -Proposing changes to grammar and vocabulary to improve consistency, including the accurate use of pronouns in sentences -Proofread for spelling and punctuation errors

PERFORMING WRITING

-Read their own writing aloud, to a group or the whole class, using appropriate intonation and controlling the tone and volume so that the meaning is clear.

VOCABULARY

- -Extending the range of sentences with more than one clause by using a wider range of conjunctions, including when, if, be-
- -Choosing nouns or pronouns appropriately for clarity and cohesion and to avoid repetition
- -Using conjunctions, adverbs and prepositions to express time and cause (and place)

GRAMMAR

- -Using the present perfect form of verbs in contrast to the past tense
- Form nouns using prefixes (super-, anti-)
- -Use the correct form of 'a' or 'an'
- -Word families based on common words (solve, solution, dissolve, insoluble)

PUNCTUATION

-Using and punctuating direct speech (i.e. Inverted commas)

GRAMMATICAL TERMINOLOGY

adverb, preposition conjunction, word family, prefix, clause, subordinate clause, direct speech, consonant, consonant letter vowel, vowel letter, inverted commas (or 'speech marks')

ENGLISH READING

DECODING / FLUENCY

Apply their growing knowledge of root words, prefixes and suffixes, both to read aloud and to understand the meaning of new words they meet -Read further exception words, noting the unusual correspondences between spelling and sound, and where these occur in the word

RANGE OF READING

-Listening to and discussing a wide range of fiction, poetry, plays, non-fiction and reference books or textbooks

-Reading books that are structured in different ways and reading for a range of purposes FAMILIARITY WITH TEXTS

-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

POETRY & PERFORMANCE

-Preparing poems and play scripts to read aloud and to perform, showing understanding through intonation, tone, volume and action -Recognising some different forms of poetry

WORD MEANINGS

-Using dictionaries to check the meaning of words that they have read

UNDERSTANDING

- -Checking that the text makes sense to them, discussing their understanding and explaining the meaning of words in context
- -Asking questions to improve their understandina of a text
- -Identifying main ideas drawn from more than one paragraph and summarising these

INFERENCE

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

PREDICTION

-Predicting what might happen from details stated and implied

AUTHORIAL INTENT

-Discussing words and phrases that capture the reader's interest and imagination -Identifying how language, structure, and presentation contribute to meaning

NON-FICTION

-Retrieve and record information from nonfiction

DISCUSSING READING

-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

SPOKEN LANGUAGE

- Articulate and justify common opinions
- -Speakaudiblyin Standard English
- -Gain, maintain and monitor interest of lis-