Year 4 Curriculum

Science

Living Things and their Habitats

☐ Recognise that living things can be grouped in a variety of ways

☐ Explore and use classification keys to help group, identify and name a variety of living things in their local and wider environment

☐ Recognise that environments can change and that this can sometimes pose dangers to living things

Animals, Including Humans

☐ Describe the simple functions of the basic parts of the digestive system in humans

☐ Identify the different types of teeth in humans and their simple functions

☐ Construct and interpret a variety of food chains, identifying producers, predators and prey.

States of Matter

☐ Compare and group materials together, according to whether they are solids, liquids or gases

☐ 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

☐ Identify the part played by evaporation and condensation in the water cycle and associate the rate of evaporation with temperature

Sound

☐ Identify how sounds are made, associating some of them with something vibrating

☐ Recognise that vibrations from sounds travel through a medium to the ear

☐ Find patterns between the pitch of a sound and features of the object that produced it

☐ Find patterns between the volume of a sound and the strength of the vibrations that produced it

☐ Recognise that sounds get fainter as the distance from the sound source increases

Year 4 Curriculum

Science

Electricity

☐ Identify common appliances that run on electricity

☐ Construct a simple series electrical circuit, identifying and naming its basic parts, including cells, wires, bulbs, switches and buzzers

☐ Identify whether or not a lamp will light in a simple series circuit, based on whether or not the lamp is part of a complete loop with a battery

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

☐ Recognise some common conductors and insulators, and associate metals with being good conductors
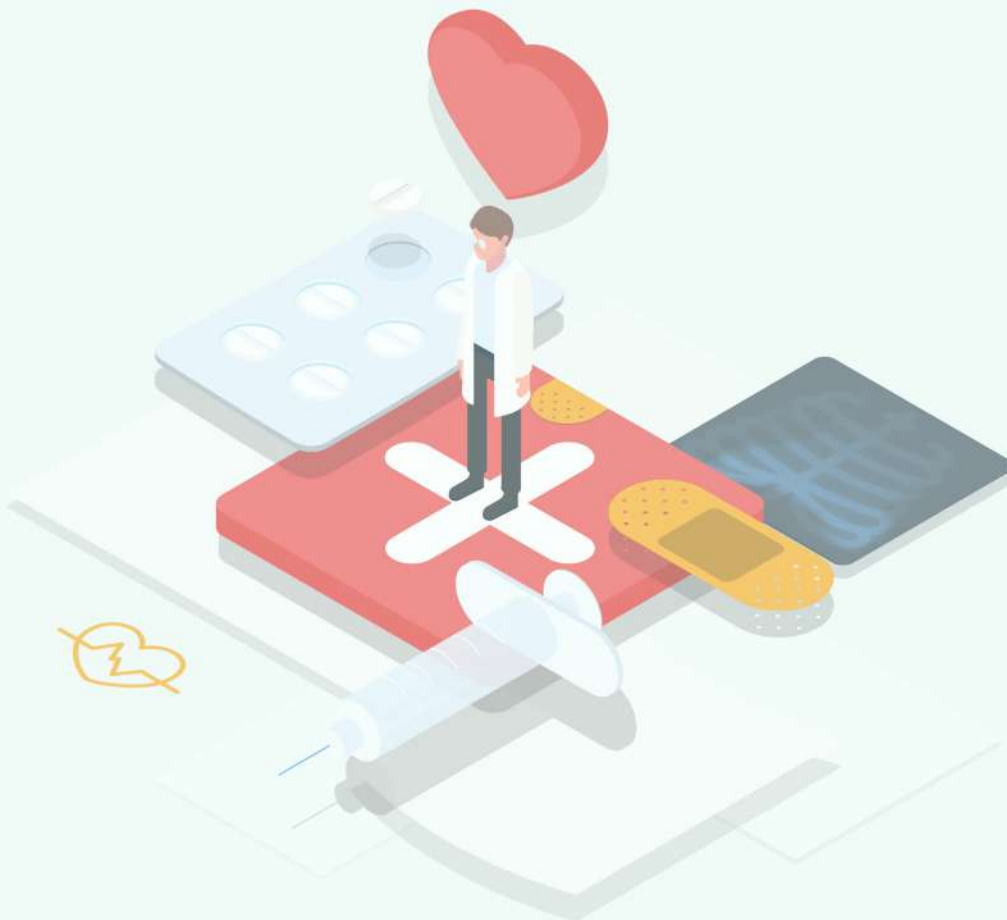
Year 4 Curriculum

English

Grammar & punctuation in Year 4 (age 8–9)

In Year 4, your child will learn to:

☐ Know the difference between the -s used to show a plural (the cows) and the –'s used to show possession (the cow's field)

☐ Use an apostrophe to show possession with plural nouns, for example, 'the girls' voices' (for more than one girl) rather than 'the girl's voices' (for just one girl)

☐ Use Standard English verbs, for example, 'I wasn't doing anything'

☐ Write longer noun phrases that include adjectives (for example, green, fast), nouns (frog, train), and prepositional phrases (on the lily-pad, after this one), for example 'the green frog on the lily-pad' or 'the fast train after this one'

☐ Use fronted adverbials to start a sentence by describing the verb, for example, 'Suddenly, the door opened.' Or 'Before we set off, fasten your seatbelt.'

☐ Use paragraphs to organise their ideas

☐ Choose when to use a noun (the girl, our group, the idea) or a pronoun (she, we, it) to make their writing easy to read

☐ Use inverted commas to when writing speech.

Year 4 Curriculum

English

Spelling in Year 4 (age 8–9)
In Year 4, your child will continue to practice:
☐ how to use a dictionary to check their spelling
☐ to spell many homophones correctly:
☐ Year 3 and 4 Homophones list
☐ accept/except, affect/effect, ball/bawl, berry/bury, brake/break, fair/fare, grate/great, groan/grown, here/hear, heel/heal/he'll, knot/not, mail/male, main/mane, meat/meet, medal/meddle, missed/mist, peace/piece, plain/plane, rain/rein/reign, scene/seen, weather/whether, whose/who's
☐ spelling more words with prefixes including words beginning dis-, mis-, in-, re-, im-, sub-, inter-, super-, anti-, auto-
☐ spelling more words with suffixes and other endings, including words ending -ation, -ly, -sure, -ture, -sion, -ion, -ous, -tion,
☐ words with unusual spelling such as ch for /k/, gue for /g/ and que for /k/, sc for /s/ and ei, eigh, and ey for /ay/
☐ using the possessive apostrophe with regular and irregular plurals, for example the children's lunch, the girls' shoes
☐ to spell the words in the Spelling word list for Year 3 and Year 4

Writing in Year 4 (age 8–9)
In Year 4, your child will continue to practise the skills they learnt in Year 3. They will:
☐ talk about similar pieces of writing, and using these to help them plan their own
☐ plan their writing by talking about it or writing down key words
☐ use a rich vocabulary and a range of sentence structures to make their writing interesting
☐ create settings, characters, and plots for stories
☐ Short research projects
☐ Dialogue writing
☐ use simple organisational devices (for example, headings and sub-headings) when writing non-fiction
☐ proof-reading their writing for spelling, grammar, and punctuation errors
☐ read their writing out loud.

Year 4 Curriculum

English

Handwriting in Year 4 (age 8–9)

■In Year 4, students will focus to work on their fluent handwriting skills, making their writing more consistent and easier to read. They will practise:

☐ writing neatly and legibly with letters that are all a similar size

☐ joining some letters

☐ deciding which letters to join and which letters not to join

☐ keeping their writing lines horizontal and keeping the space between lines parallel and consistent

☐ keeping the downstrokes of their writing upright and parallel

☐ making sure that descenders of one line do not touch the ascenders of the line below.
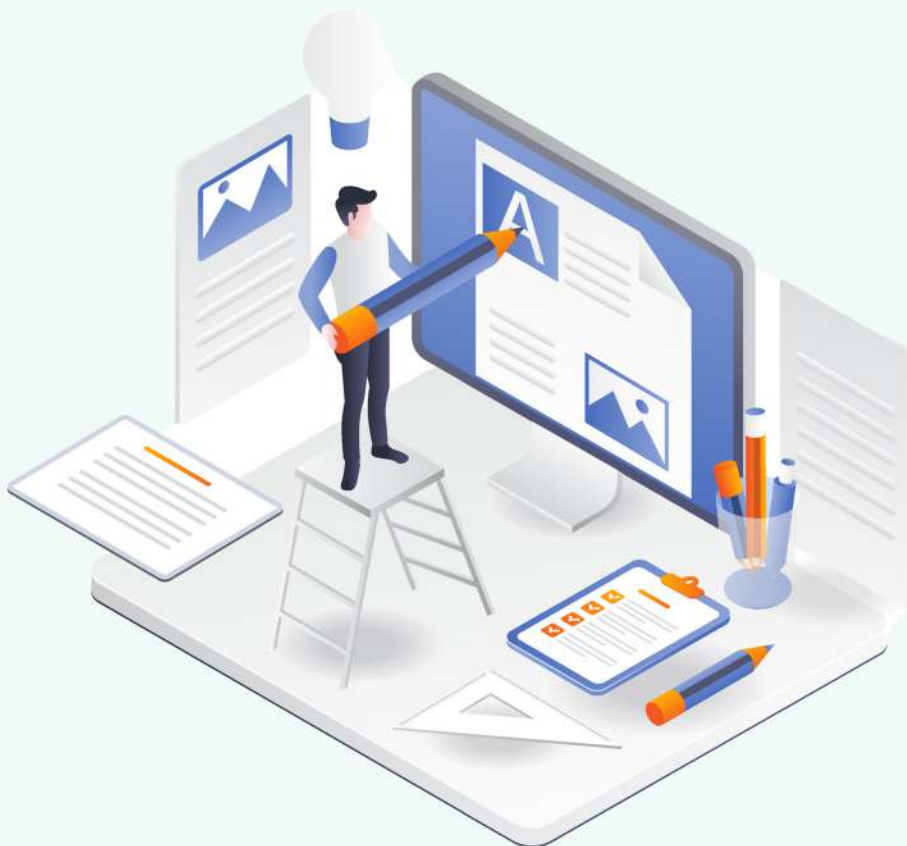
Year 4 Curriculum

Math

Number - Number and Place Value

☐ Count in multiples of 6, 7, 9, 25 and 1000
☐ Find 1000 more or less than a given number
☐ Count backwards through zero to include negative numbers
☐ Recognise the place value of each digit in a four-digit number
☐ Order and compare numbers beyond 1000
☐ Identify, represent and estimate numbers using different representations
☐ Round any number to the nearest 10, 100 or 1000
☐ Solve number and practical problems that involve all of the above and with increasingly large positive numbers
☐ Read Roman numerals to 100 (I to C) and know that over time, the numeral system changed to include the concept of zero and place value.

Number - Addition and Subtraction

☐ Add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate
☐ 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.

Number - Multiplication and Division

☐ Recall multiplication and division facts for multiplication tables up to 12 x 12
☐ 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
☐ Multiply two-digit and three-digit numbers by a one-digit number using formal written layout
☐ Solve problems involving multiplying and adding, including using the distributive law to multiply two digit numbers by one digit, integer scaling problems and harder correspondence problems such as n objects are connected to m objects.
☐

Year 4 Curriculum

Math

Number - Fractions

☐ Recognise and write decimal equivalents of any number of tenths or hundredths

☐ Recognise and write decimal equivalents to 1/4, 1/2, 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

☐ 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

☐ Solve simple measure and money problems involving fractions and decimals to two decimal places

☐ Recognise and show, using diagrams, families of common equivalent fractions

☐ Count up and down in hundredths; recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten.

☐ 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

☐ Add and subtract fractions with the same denominator

Measurement

☐ Read, write and convert time between analogue and digital 12- and 24-hour clocks

☐ Solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days

☐ Convert between different units of measure

☐ Measure and calculate the perimeter of a rectilinear figure in centimetres and metres

☐ Find the area of rectilinear shapes by counting squares

☐ Estimate, compare and calculate different measures, including money in pounds and pence

Year 4 Curriculum

Math

Geometry - Properties of Shape

☐ Compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes

☐ Identify acute and obtuse angles and compare and order angles up to two right angles by size

☐ Identify lines of symmetry in 2D shapes presented in different orientations

☐ Complete a simple symmetric figure with respect to a specific line of symmetry

Geometry - Position and Direction

☐ Describe positions on a 2D grid as coordinates in the first quadrant

☐ Describe movements between positions as translations of a given unit to the left/right and up/down

☐ Plot specified points and draw sides to complete a given polygon

Statistics

☐ Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs.

☐ Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs.