

#### Science

Science
Living Things and their Habitats  ☐ Differences in the Life Cycles of Mammals, Amphibians, Insects and Birds ☐ Describe the life process of reproduction in some plants and animals.
Forces  ☐ Explain that unsupported objects fall towards the Earth because of the force of gravity acting between the Earth and the falling object ☐ Identify the effects of air resistance, water resistance and friction, that act between moving surfaces ☐ Recognise that some mechanisms, including levers, pulleys and gears, allow a smaller force to have a greater effect
Animals, Including Humans  Describe the changes as humans develop to old age
Earth and Space  ☐ Describe the movement of the Earth, and other planets, relative to the Sun in the solar system  ☐ Describe the movement of the Moon relative to the Earth  ☐ Describe the Sun, Earth and Moon as approximately spherical bodies  ☐ Use the idea of the Earth's rotation to explain day and night and the apparent movement of the sun across the sky





# **Science**

#### **Properties and Changes of Materials**

<ul> <li>Compare and group together everyday materials on the basis of their</li> </ul>
properties, including their hardness, solubility, transparency, conductivity
(electrical and thermal), and response to magnets
<ul> <li>Know that some materials will dissolve in liquid to form a solution, and</li> </ul>
describe how to recover a substance from a solution
Use knowledge of solids, liquids and gases to decide how mixtures might be
separated, including through filtering, sieving and evaporating
<ul> <li>Explain that some changes result in the formation of new materials, and that</li> </ul>
this kind of change is not usually reversible, including changes associated with
burning and the action of acid on bicarbonate of soda
<ul> <li>Demonstrate that dissolving, mixing and changes of state are reversible</li> </ul>
changes
Give reasons, based on evidence from comparative and fair tests, for the

particular uses of everyday materials, including metals, wood and plastic





# **English**

Grammar	&	punctuation	n in	Year :	5	(age 9	9–10	)

Grammar & punctuation in real o (age o 10)
☐ Create verbs by adding the suffixes -ate, -ise, -ify, for example, concentrate,
cultivate, specialize, advertise, glorify, purify
☐ Use relative clauses (clauses that begin who, which, where, when, whose or
that) to add more information about a noun to a sentence, for example:
'I found the book that I was searching for.'
'Mac won the prize, which upset Tash.'
☐ Use modal verbs, for example, would, should, could, will, may, might, shall or
must to show how likely something is to happen
☐ Use adverbs, for example, definitely, certainly, clearly, obviously, possibly or
maybe to show how likely something is to happen
□ Use different ways to make the information in a paragraph flow
□ Use brackets, dashes or commas to separate out extra information in a

Mount Everest (the highest mountain in the world) is in the Himalayas. Mount Everest – the highest mountain in the world – is in the Himalayas. Mount Everest, the highest mountain in the world, is in the Himalayas.

 $\hfill \square$  Use commas to make sentences clearer, for example:

'We learned English, Math and Science in school.' instead of

'We learned English Math Science in school.'

sentence, for example:





English
Spelling in Year 5 (age 9–10)
Kids will learn:
□ to spell words with silent letters, for example, doubt, island, lamb, solemn,
thistle, knight
□ to spell words ending in ence/ance or able/ible
□ to spell more homophones and other confusing words
☐ Year 5 and 6 homophones list
□ aisle/isle, aloud/allowed, affect/effect, altar/alter, ascent/assent, bridal/bridle,
cereal/serial, compliment/complement, descent/dissent, desert/dessert,
draft/draught, farther/further/father, guessed/guest, heard/herd, led/lead,
morning/mourning, past/passed, precede/proceed, principal/principle,
profit/prophet, stationary/stationery, steal/steel, wary/weary, who's/whose
<ul> <li>□ to talk about word families, for example, sign, design, signature, significant</li> <li>□ to use a thesaurus to find new words</li> </ul>
□ to use a dictionary to check their spelling
Little a dictionary to check their spelling
Writing in Year 5 (age 9–10)
In Year 5, your child will learn to:
□ decide who they are writing for and what this means for their writing
□ plan their writing before they start
choose the right style and structure to match the type of text they are writing
□ choose the right vocabulary and grammar for their writing
□ write a story with plotting different characters and imagining different
situations with interesting vocabulary and dialogue
□ Narrative writing
Dialogue writing
☐ Factual writing
write non-fiction with features such as headings, captions, bullet points,
subheadings and diagrams
use a consistent tense throughout their piece
□ check their own writing and the writing of their classmates, making useful

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comments. Handwriting



#### Math

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☐ Read, write, order and compare numbers to at least 1,000,000 and determine
the value of each digit
☐ Count forwards or backwards in steps of powers of 10 for any given number
up to 1,000,000
□ Interpret negative numbers in context, count forwards and backwards with
positive and negative whole numbers, including through zero
☐ Round any number up to 1,000,000 to the nearest 10, 100, 1000, 10,000 and
100,000
□ Solve number problems and practical problems that involve all of the above
☐ Read Roman numerals to 1000 (M) and recognise years written in Roman

#### **Number - Addition and Subtraction**

numerals.

- ☐ Add and subtract whole numbers with more than 4 digits, including using formal written methods
- ☐ Add and subtract numbers mentally with increasingly large numbers
- ☐ Use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy
- ☐ Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why





## Math

Number - Mu	ultiplication	and	Division
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□ Identify multiples and factors, including finding all factor pairs of a number,
and common factors of two numbers
<ul> <li>Know and use the vocabulary of prime numbers, prime factors and composite</li> </ul>
numbers
☐ Establish whether a number up to 100 is prime and recall prime numbers up
to 19
☐ 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
<ul> <li>Multiply and divide numbers mentally drawing upon known facts</li> </ul>
☐ 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
☐ Multiply and divide whole numbers and those involving decimals by 10, 100
and 1000
☐ Recognise and use square numbers and cube numbers, and the notation for
squared and cubed
□ Solve problems involving multiplication and division including using their
knowledge of factors and multiples, squares and cubes
□ Solve problems involving addition, subtraction, multiplication and division and
a combination of these, including understanding the meaning of the equals sign
□ Solve problems involving multiplication and division, including scaling by





# Math

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Number - Fractions
☐ Compare and order fractions whose denominators are all multiples of the
same number
☐ Identify, name and write equivalent fractions of a given fraction, represented
visually, including tenths and hundredths
☐ Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements greater than 1 as a mixed
number
☐ Add and subtract fractions with the same denominator and denominators that are multiples of the same number
☐ Multiply proper fractions and mixed numbers by whole numbers, supported
by materials and diagrams
□ Read and write decimal numbers as fractions
Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents
$\hfill \square$ Round decimals with two decimal places to the nearest whole number and to
one decimal place
Read, write, order and compare numbers with up to three decimal places
□ Solve problems involving number up to three decimal places
Recognise the per cent symbol and understand that per cent relates to
'number of parts per hundred', and write percentages as a fraction with
denominator 100, and as a decimal
Solve problems which require knowing percentage and decimal equivalents
of 1/2, 1/4, 1/5, 2/5, 4/5, and those fractions with a denominator of a multiple of
10 or 25
Coometry, Droportice of Shape
Geometry - Properties of Shape  ☐ Identify 3D shapes, including cubes and other cuboids, from 2D
representations  Use the properties of rectangles to deduce related facts and find missing
lengths and angles
☐ Distinguish between regular and irregular polygons based on reasoning
about equal sides and angles
☐ Know angles are measured in degrees: estimate and compare acute, obtuse
and reflex angles
□ Draw given angles, and measure them in degrees
☐ Identify: angles at a point and one whole turn; angles at a point on a straight
line and a turn; other multiples of 90



## Math

Measurement
<ul> <li>□ Convert between different units of metric measure</li> <li>□ Understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints</li> </ul>
Measure and calculate the perimeter of composite rectilinear shapes in centimeters and meters
<ul> <li>□ Calculate and compare the area of rectangles (including squares), and including using standard units, square centimeters and square meters and estimate the area of irregular shapes</li> <li>□ Estimate volume and capacity</li> </ul>
□ Solve problems involving converting between units of time □ Use all four operations to solve problems involving measure using decimal notation, including scaling
Geometry - Position and Direction  ☐ Identify, describe and represent the position of a shape following a reflection or translation, using the appropriate language, and know that the shape has not changed
Statistics  ☐ Solve comparison, sum and difference problems using information presented in a line graph ☐ Complete, read and interpret information in tables, including timetables
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