

Year 6 Maths Key Objectives

1	Use negative numbers in context, and calculate intervals across zero
2	Divide numbers up to 4 digits by a two-digit whole number using the formal written method of long division, and interpret remainders as whole number remainders, fractions, or by rounding, as appropriate for the context
3	Use their knowledge of the order of operations to carry out calculations involving the four operations
4	Use common factors to simplify fractions
5	Compare and order fractions, including fractions > 1
6	Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions
7	Multiply simple pairs of proper fractions, writing the answer in its simplest form
8	Divide proper fractions by whole numbers
9	Associate a fraction with division and calculate decimal fraction equivalents [for example, 0.375] for a simple fraction
10	Multiply one-digit number with up to two decimal places by whole numbers
11	Use written division methods in cases where the answer has up to two decimal places
12	Solve problems involving the calculation of percentages [for example, of measures, and such as 15% of 360] and the use of percentages for comparison
13	Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts.
14	Solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts
15	Solve problems involving similar shapes where the scale factor is known or can be found
16	Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples.
17	Use simple formulae
18	Generate and describe linear number sequences
19	Express missing number problems algebraically
20	Use, read, write and convert between standard units, converting measurements of length, mass, volume and time from a smaller unit of measure to a larger unit, and vice versa, using decimal notation to up to three decimal places
21	Convert between miles and kilometres
22	Calculate the area of parallelograms and triangles
23	Calculate, estimate and compare volume of cubes and cuboids using standard units
24	Illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius
25	Find unknown angles in any triangles, quadrilaterals, and regular polygons
26	Recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles
27	Describe positions on the full coordinate grid (all four quadrants)
28	Draw and translate simple shapes on the coordinate plane, and reflect them in the axes.
29	Interpret and construct pie charts and line graphs
30	Calculate and interpret the mean as an average

Year 5-6 Reading Key Objectives

1	Apply their growing knowledge of root words, prefixes and suffixes (morphology and etymology), both to read aloud and to understand the meaning of new words
2	Making comparisons within and across books
3	Modern fiction, fiction from our literary heritage, and books from other cultures and traditions
4	Identifying and discussing themes and conventions in and across a wide range of writing
5	Checking that the book makes sense to them, discussing their understanding and exploring the meaning of words in context
6	Asking questions to improve their understanding
7	Summarising the main ideas drawn from more than one paragraph, identifying key details to support the main ideas
8	Predicting what might happen from details stated and implied
9	Identifying how language, structure and presentation contribute to meaning
10	Discuss and evaluate how authors use language, including figurative language, considering the impact on the reader
11	Recommending books that they have read to their peers, giving reasons for their choices
12	Participate in discussions about books, building on their own and others' ideas and challenging views courteously
13	Explain and discuss their understanding of what they have read,
14	Including through formal presentations and debates,
15	Provide reasoned justifications for their views

Year 5-6 Writing Key Objectives

1	Spell some words with 'silent' letters
2	Continue to distinguish between homophones and other words which are often confused
3	Use dictionaries to check the spelling and meaning of words
4	Identifying the audience for and purpose of the writing, selecting the appropriate form and using other similar writing as models for their own
5	Selecting appropriate grammar and vocabulary, understanding how such choices can change and enhance meaning
6	In narratives, describing settings, characters and atmosphere and integrating dialogue to convey character and advance the action
7	Précising longer passages
8	Using a wide range of devices to build cohesion within and across paragraphs
9	Using further organisational and presentational devices to structure text and to guide the reader
10	Ensuring the consistent and correct use of tense throughout a piece of writing
11	Ensuring correct subject and verb agreement when using singular and plural, distinguishing between the language of speech and writing and choosing the appropriate register
12	Perform their own compositions, using appropriate intonation, volume, and movement so that meaning is clear.
13	Use a thesaurus

14	Using expanded noun phrases to convey complicated information concisely
15	Using modal verbs or adverbs to indicate degrees of possibility
16	Using relative clauses beginning with who, which, where, when, whose, that or with an implied (i.e. omitted) relative pronoun
17	Converting nouns or adjectives into verbs
18	Devices to build cohesion, including adverbials of time, place and number
19	Recognising vocabulary and structures that are appropriate for formal speech and writing, including subjunctive forms
20	Using passive verbs to affect the presentation of information in a sentence
21	Using the perfect form of verbs to mark relationships of time and cause
22	Differences in informal and formal language
23	Further cohesive devices such as grammatical connections and adverbials
24	Use of ellipsis
25	Using commas to clarify meaning or avoid ambiguity in writing
26	Using brackets, dashes or commas to indicate parenthesis
27	Using hyphens to avoid ambiguity
28	Using semicolons, colons or dashes to mark boundaries between independent clauses
29	Using a colon to introduce a list
30	Punctuating bullet points consistently

Year 6 Science Key Objectives

1	Using test results to make predictions to set up further comparative and fair tests
2	Using simple models to describe scientific ideas
3	Identifying scientific evidence that has been used to support or refute ideas or arguments.
4	Describe how living things are classified into broad groups according to common observable characteristics and based on similarities and differences, including micro-organisms, plants and animals
5	Identify and name the main parts of the human circulatory system, and describe the functions of the heart, blood vessels and blood
6	Recognise that living things produce offspring of the same kind, but normally offspring vary and are not identical to their parents
7	Identify how animals and plants are adapted to suit their environment in different ways and that adaptation may lead to evolution.
8	Explain that we see things because light travels from light sources to our eyes or from light sources to objects and then to our eyes
9	Associate the brightness of a lamp or the volume of a buzzer with the number and voltage of cells used in the circuit
10	Use recognised symbols when representing a simple circuit in a diagram.