Year 6 Learning objectives

English Writing
Use a range of spelling strategies
Convert verbs into nouns by adding a suffix.
Spell the commonly mis-spelt words from the Y5/6 word list
Able to select the handwriting that is best suited for a specific task.
Identify the audience for and purpose of the writing
Use grammatical structures and features and choose vocabulary appropriate to the audience, purpose and degree of formality to make meaning clear and create effect
Use a range of sentence starters to create specific effects
Use developed noun phrases to add detail to sentences
Use the passive voice to present information with a different emphasis
Use commas to mark phrases and clauses
Sustain and develop ideas logically in narrative and non-narrative writing
Use character, dialogue and action to advance events in narrative writing
Summarise a text, conveying key information in writing
Write in paragraphs which clearly signal a change in subject, time, place or event
Use the semi-colon, colon and dash
Use the colon to introduce a list and semi-colon within lists
Use a hyphen to avoid ambiguity

Science
Plan different types of scientific enquiry.
Control variables in an enquiry.
Measure accurately and precisely using a range of equipment.
Record data and results using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs.
Use the outcome of test results to make predictions and set up a further comparative fair test.
Report findings from enquiries in a range of ways.
Explain a conclusion from an enquiry.
Explain causal relationships in an enquiry.
Relate the outcome from an enquiry to scientific knowledge in order to state whether evidence supports or refutes an argument or theory.
Spell and pronounce scientific vocabulary accurately.

Mathematics
Use negative numbers in context, and calculate intervals across zero.
Round any whole number to a required degree of accuracy and solve problems which require answers to be rounded to a specific degree of accuracy.
Solve problems involving the relative sizes of two quantities where the missing values can be found by using integer multiplication and division facts.
Use common factors to simplify fractions; use common multiples to express fractions in the same denomination.
Solve problems involving the calculation of percentages.
Multiply numbers with up to two decimal places by whole numbers.
Perform mental calculations, including with mixed operations and large numbers.
Divide numbers up to 4-digits by a 2-digit whole number using the formal written methods for long division and interpret a remainder in various ways.
Order operations to carry out calculations involving all four operations.
Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions.
Multiply simple pairs of proper fractions, writing the answer in its simplest form.
Divide proper fractions by whole numbers.
Associate a fraction with division and calculate decimal fraction equivalents.
Express missing number problems algebraically.
Find pairs of numbers that satisfy number sentences involving two unknowns.
Recognise, describe and build simple 3D shapes, including making nets.
Compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangle, quadrilateral and regular polygon
Illustrate and name parts of circles, including the radius, diameter and circumference and know that the radius is half the diameter.
Read, write and convert between standard units, converting measurements of length using decimal notation up to 3 decimal places.
Calculate the area of a parallelogram and triangles and calculate, estimate and compare the volume of cubes and cuboids using standard units.
Interpret and construct pie charts and line graphs and use these to solve problems.

English Reading
Read fluently, using punctuation to inform meaning
Attempt the pronunciation of unfamiliar words drawing on prior knowledge of similar looking words
Use knowledge of phonemes and word derivations to pronounce words correctly
Apply knowledge of root words, prefixes and suffixes to read aloud and to understand the meaning of unfamiliar words
Identify and discuss the conventions in different text types
Know the features of a wide range of books and text types of each genre
Identify the key points in a text

Religious Education
Understand the Christian messages in a range of forms and consider how we demonstrate Christian values
Make links between the beliefs of religious groups and how these beliefs affect believers' lives
Use the correct religious language to describe and compare the practices and experiences involved in belonging to different religious groups
Express religious beliefs in a range of styles and reflect on their impact and significance
Ask questions about who we are and where we belong. Suggest answers which refer to people who have inspired and influenced ourselves and others
Ask questions about the meaning and purpose of life and suggest a range of answers which might be given by Christians as well as members of other religious groups
Ask questions about the moral decisions people make and suggest what might happen as a result of different decisions, including those made with reference to religious beliefs / values

English Speaking
Talk confidently and fluently in a range of situations, using formal and Standard English, if necessary
Ask questions to develop ideas and take account of others' views
Explain ideas and opinions, giving reasons and evidence
Take an active part in discussions and able to take on different roles
Listen to, and consider the opinions of, others in discussions
Make contributions to discussions, evaluating others' ideas and responding to them