Cycle A Term 3

Curriculum Subject	Activities and Learning Challenges
Literacy	**Writing** • Identify features of new genre • Shared write • Guided write • Independent writing **Genres** • Newspaper Report • Explanation • Narrative **Grammar/ sentence structures** • Focus on grammar linked to current genre • Revision of fundamental grammar and sentence structure **Spelling** • Year 5/6-word list • Root words, plurals, double consonants, ay sound, ough words, f sound, prefixes- un/de, im/in/il/ir, auto/trans/bi/tri/semi, aero/micro/super/sub/inter, tele/mis/anti/photo/circum, hyphenating prefixes • Words generated from individual writing **Reading** • Individual reading- free readers • Read and respond- guided reading • Comprehension- focus on inference and use of language • Daily silent reading session
Maths	**Year 5** • Mental addition and subtraction- Add mentally 2-place decimal numbers in the context of money using rounding.

- Problem solving, reasoning and algebra- solve word problems, including 2-step problems, choosing an appropriate method.
- Fractions, ratio and proportion- Multiply fractions less than 1 by whole numbers, convert improper fractions to whole numbers. compare and order fractions with related denominators; add fractions with same or related denominators, then convert answer into a mixed number; subtract fractions with same and related denominators, revise multiplying fractions by whole numbers
- Number and place value- Multiply and divide numbers by 10, 100 and 1000 using 3-place decimal numbers in the calculations-rounding.
- Geometry: position and direction- co-ordinates, translation, reflection,
- Geometry: properties of shapes- properties of 2D and 3D shapes.
- Written addition and subtraction- Add 5-digit numbers using written column addition; subtract 5-digit numbers using written method
- Measurement- perimeter and area of compound shapes. Begin to understand rate; use timetables using the 24-hour clock and use counting up to find time intervals of several hours and minutes
- Decimals, percentages and their equivalence to fractions- Understand what percentages are, relating them to hundredths; know key equivalences between percentages and fractions, finding percentages of amounts of money
- Number and place value- Roman numerals
- Statistics- draw and interpret line graphs showing change in temperature over time.

Year 6
- Number and place value- Revise reading, writing, comparing and ordering numbers with up to seven digits and decimal numbers with up to three decimal places.
- Decimals, percentages and their equivalence to fractions-
- Mental addition and subtraction- Revise adding and subtracting whole numbers and decimal numbers using mental and written methods.
- Fractions, ratio and proportion- Revise equivalence simplifying fractions and changing improper fractions into mixed numbers and vice versa; revise adding and subtracting fractions with different denominators
- Geometry: properties of shapes- Revise using trial and improvement to solve equations involving one or two unknowns, and find missing lengths and angles. Revise properties and classification of 2D shapes, drawing 2D shapes using ruler
- Mental addition and subtraction-

	- Problem solving, reasoning and algebra- solve word problems involving multiplication of money and measures; use a systematic approach to solve problems involving multiplication and division, including long multiplication of 3-digit and 4-digit numbers and decimals. Explore binary numbers; solve mathematical puzzles; including using multiplication facts, find digital roots and look for patterns; explore Fibonacci sequences and Pythagoras' theorem. - Written multiplication and division- Revise using short division to find unit fractions of amounts, including decimals, and round answers to money problems according to the context- long division- long multiplication. - Statistics- revise calculating the mean average, revise reading and interpreting different types of data display - Geometry: position and direction- revise reading and marking coordinates in all four quadrants, draw simple polygons and find missing coordinates on a polygon or line. - Measurement- read intermediate points off scales; use a protractor to measure and draw angles in degrees; identify and name acute, right, obtuse and reflex angles; understand perimeter, area and volume; find the perimeter of rectangles, find the area of rectangles, parallelograms and triangles, and find the volumes of cubes and cuboids
Science	**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 **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

ICT	• Data handling • Modelling • Digital research • Collect and represent data appropriately • Purple Mash scheme of work (See ICT and computing overview) **Python Coding** • Unit 3 - Random numbers and simulations • Learn how to use random numbers and create simulations with Python. • Make a random number generator that predicts that the temperature will be between 0 and 25 degrees C. • Write a short program that describes a random noun using a random adjective • Use a loop to make a four line poem
History	**Tudors** • Place events, people and changes into correct periods of time. • Recall, select and organise historical information. • use dates and historical vocabulary to describe the periods studied. • Battle of Bosworth • Henry VIII & his 6 wives • Tudor children • Tudor Stately Homes and Houses **Victorians** • Study Victoria - her life, family, portraits and homes. • Major inventions lead into the daily life of Victoria's subjects. • Workhouses and child labor are studied through fiction. • Use census data, maps, buildings and the advent of railways to develop local history.
Geography	**N/A**
Art and Design	• Tudor canvas paintings • Victorian portraits • Self Portraits (pastels)
Design and Technology	• Sculpture • Tudor Houses (Design and Construction)

Physical Education	• Striking/fielding games • Dance- The world of sport
Religious Education	• What is faith and what difference does it make? • How do beliefs of Christians influence their actions?
Modern Foreign Language	• Food- likes and dislikes • Numbers 60-100 • Building sentences • Food for celebrations • Months and seasons • Holidays • Weather • scene de plage (beach) • Presentation on what they have learnt this year in French.
PSHE	• Economic understanding (Budgeting/handling data) • Change (SEAL) Year 6- transition to secondary school