Curriculum Overview for Year 6

English

- Read and write with fluency, confidence and understanding
- Use a full range of reading cues (phonics, graphics, context) to monitor and correct
- Use spelling strategies and rules to read and spell accurately
- Write fluently and legibly
- Have an interest in words and their meanings and a growing vocabulary
- Recognise and write in a range of genres in fiction and poetry and be aware of the impact of literary features
- Understand, use and write a range of non-fiction texts
- Plan, draft, revise and edit own writing
- Articulate and justify answers, arguments and opinions
- Select and use appropriate registers for effective communication
- Be able to use: passive verbs; expanded noun phrases; modal verbs or adverbs; relative clauses; commas to clarify meaning; brackets, dashes or commas to indicate parenthesis; semi-colons, colons or dashes to mark boundaries between independent clauses; a colon to introduce a list and bullet points.

Art & Design

- Mix complementary colours and use tints and shades
- Improve techniques including drawing, painting and sculpture with a range of materials
- Learn about great artists, architects and designers in history
- Make use of line, shape, pattern, form and texture to enhance pieces of work

Computing

- learn about email safety with a focus on preventing and dealing with spam, creating strong passwords, understanding plagiarism and how online photos can be manipulated to appear reality programming
  - Creating animated stories using Scratch
- Creating a radio program
- Using and applying computer skills

Mathematics

Number

- Use and calculate with negative numbers
- Carry out calculations with order of operations
- Use the formal written methods of long multiplication and division
- Identify common factors, multiples and prime numbers
- Add and subtract fractions
- Multiply and divide fractions

Measurement

- Calculate area of parallelograms and triangles
- Calculate volume of cubes and cuboids

Geometry

- Name and calculate parts of a circle
- Draw, translate and reflect simple shapes on the coordinate plane

Statistics

- Interpret and construct pie charts and line graphs
- Calculate the mean

Ratio and Proportion

- Solve problems using ratio and %

Algebra

- Express missing numbers algebraically
- Find numbers that satisfy an equation

Design & Technology

- use labelled sketches, diagrams and illustrations when planning a design
- construct simple forms using a variety of materials
- evaluate work as it develops
- apply understanding of computing to program
  - understand seasonality and know where and how a variety of ingredients are grown, reared, caught and processed

Social Studies

- Know more about Japan
- Recognise mountains and rivers, understand how mountains they are made
- Understand hemispheres, tropics and equator
- Be able to locate the Galapagos
- Understand Japanese history
- Crime and punishment timeline
- Understand the Aztecs timeline and culture
- History of the discovery of evolution

Science

Topics:

Living Things & their Habitats

• Classification of living organisms including micro-organisms, plants and animals

Animals (including humans)

• Human circulatory system, functions of the heart, blood vessels and blood
• Impact of diet, exercise, drugs and lifestyle on the way their bodies function

Evolution & Inheritance

• Fossils
• Variation in offspring
• Adaptations and evolution

Light

• Path of travel of light and how objects are seen
• Shadows

Electricity

• Simple and series circuits including components
• Variations in how components function, including the brightness of bulbs, the loudness of buzzers and the on/off position of switches

Working Scientifically

• planning different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary
• taking measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate
• recording data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs
• reporting and presenting findings from enquiries, including conclusions, causal relationships and explanations of and degree of trust in results, in oral and written forms such as displays and other presentations.

German

- Längere Texte unterschiedlicher Art (Sach- und Erzähltexte, Prosa, Gedichte) lesen und verstehen
- Erzählen- ein Erlebnis spannend erzählen, den Aufbau einer Erzählung planen (Schreibplan anlegen, Einleitung, Hauptteil, Schluss), nach Bildern erzählen
- Argumentieren-eigene Meinung sprachlich ausdrücken, begründen
- Schriftlich Stellung nehmen- Einen persönlichen Brief /eine Email schreiben

Music

- Sing a roundabout in four parts
  - Play simple chords on ukulele while Singing
  - Keep a steady pulse and improvise rhythmic patterns
- Sing songs written in two parts, maintaining own part confidently

To be able to:

- understand and respond to longer instructions, messages and dialogues.
- identify and understand specific details in familiar and unfamiliar language.
- participate in lessons with an increasing range of comprehension.
- initiate conversation on familiar and new topics.
- offer explanations and discuss different topics.
- read with accurate pronunciation and intonation.
- deal with longer passages of comprehension with complex structure.
- write familiar sentences and short texts from memory.
- complete basic grammar exercises.
- use vocabulary appropriate to topic.

Physical Education

- 'Dance:
- 'I'm POSSIBLE' - inclusion in sport and paralympics
- Educational gymnastics
- Circuit training
- Volleyball
- Cross country running
- Golf and Frisbee golf
- Cricket, athletics

PSHE

- What makes a community?
  - Safety First- Drugs, smoking and solvents
  - Growing Up- Sex and Relationships
- Climate Change
- What the ocean gives us
- Fast Fashion
- Money Matters
- Human Rights