Cross-Curriculum Maths (including but not limited to…)

Maths through English

- Using and spelling mathematical vocabulary and using it in the right contexts.

Maths through Topic:

- Timelines to sequence events and see how long between various time periods
- Symmetry in flags
- Map reading, Grid reference and coordinates
- Time zones
- Building Stone Age hunt (shape), excavation lessons, direction
- Egyptians - Creating 3D shapes such as the Egyptian pyramids
- Rainforest - Analysing different climates, temperatures and precipitation
- Ancient Greeks – Archimedes/Pythagoras
- WW2 - Code breaking lesson

Maths through Music

- Fractions – whole notes, quarter, eighth, sixteenth notes
- Analysing music- looking for sequences, the structure of music, repeated patterns in a melody or harmony.

Maths through French

- Learning numbers
- Writing the date, day and month in French
- Telling the time in French

Maths through PSHE

- Where does my money come from?
- Why is it important to save money?
- Enterprise spending money
- School Council raising money
- How do I plan a simple budget?
- What are the links between jobs and money?
- Healthy eating - reading food labels, ratio and measuring ingredients.

Maths through Art and D&T

- Stone Age Necklace: repeated patterns
- African paper mache masks – proportion
- Ratio of mixing paint, measuring, estimation, sharing resources equally and scaling.
- DT: Making a healthy snack - reading scales, measuring ingredients
- The art of mathematics
- Time – discussions of the lives of artists studies e.g. how long ago they lived, how long they lived etc.
- Measuring fabric for projects such as Christmas stockings
- William Morris pattern design repeating designs, symmetry (rotational and reflective), tessellation.

Maths through RE

- Comparing religions (venn diagrams)
- Populations and beliefs
- Symmetry – Rangoli patterns

Maths through Science

- Plants- Tracking growth, graphs. Symmetry of pollinating insects.
- Animal, including humans- Exercise and heart rate investigation. Animal gestation periods. Life cycle data relating to different insects – lengths of different stages of cycle. Exercise and heart rate investigations. Creating line and bar charts. Tally marks and graphs to record frequency of species in habitats.
- Rocks- Timelines (rock formation and maturation). Sorting and tallying different types of rocks. Temperature reading /comparison for rock formation.
- Light- Angles of reflection, speed of light.
- Forces and magnets- Tally chart, measure / observe how magnets attract or repel each other. Measurement – highest/lowest. Calculating averages.
- States of matter - Recording and comparing the time taken for states to change in investigations. Graphing results.
- Sound Tabulating and graphing investigation results. Measuring distances from sources of sound.
- Electricity- Tabulating and graphing investigation results e.g. conductors and insulators. Looking at electricity bills calculating voltage.
- Properties and changes of materials - Grouping and sorting diagrams Venn diagrams depicting logical set relations: Dissolving group materials. Measuring/plotting temperature. Creating line and bar graphs.
- Earth and space - Weight and mass, Size of planets, Distances from the sun, Lengths of days, months and years, Number of moons.

Maths through Computing

- Networks, connections, map reading skills and scaling
- Coding - programming turn, duration and number variables in code creation. Use logical reasoning to explain how some simple algorithms work. Debugging, logical problem solving, ordering, sequencing, creating flow charts, reading and interpreting data.
- Using technologies effectively, sorting and scaling pictures and text.
- Scratch – ordering, sequencing and repetition.
- Data handling, collecting data, analysing data and creating graphs.
- Scaling pictures and text, detect and correct errors in algorithms and programs.