Yearly Curriculum Overview- Year 5

English

Reading
•Apply knowledge of morphology & etymology when reading new words
•Reading & discuss a broad range of genres & texts
•Identifying & discussing themes
•Make recommendations to others
•Learn poetry by heart
•Draw inference & make predictions
•Discuss authors' use of language
•Retrieve & present information from non-fiction texts. •Formal presentations & debates English

Writing
•Secure spelling, inc. homophones, prefixes, silent letters, etc.
•Use a thesaurus
•Legible, fluent handwriting
•Plan writing to suit audience & purpose
•Develop character, setting and atmosphere in narrative
•Use organisational & presentational features
•Use consistent appropriate tense
•Proof-reading
•Perform own compositions

Grammar
•Use expanded noun phrases
•Use modal & passive verbs
•Use relative clauses
•Use commas for clauses
•Use brackets, dashes & commas for parenthesis Speaking & Listening
•Give well-structured explanations
•Command of Standard English
•Consider & evaluate different viewpoints
•Use appropriate register

Art

- Use sketchbooks to collect, record, review, revisit & evaluate ideas
- Improve mastery of techniques such as drawing, painting and sculpture with varied materials
- Learn about great artists, architects & designers

Computing

Sound/Movement/Sensors
Design and write simple programs that accomplish specific goals, including controlling or simulating physical systems.
Solve problems by decomposing them into smaller parts.
Use sequence, selection and repetition in programs.
Work with variables and various forms of input and output.
Generate appropriate inputs and predicted outputs to test programs.
Use logical reasoning to explain how a simple algorithm works and to detect and correct errors in algorithms and programs
Powerpoint, Excel-spread sheet, word typing skills, e-safety, ipad apps, taking pictures, making videos, research and databases need to be taught through other subjects

Mathematics

Number/Calculation
•Secure place value to 1,000,000
•Use negative whole numbers in context
•Use Roman numerals to 1000 (M)
•Use standard written methods for all four operations
•Confidently add & subtract mentally •Use vocabulary of prime, factor & multiple
•Multiply & divide by powers of ten
•Use square and cube numbers

Geometry & Measures
•Convert between different units
•Calculate perimeter of composite shapes & area of rectangles
•Estimate volume & capacity
•Identify 3-d shapes
•Measure & identify angles
•Understand regular polygons
Reflect & translate shapes
Data
•Interpret tables & line graphs
•Solve questions about line graphs

Fractions
•Compare & order fractions
•Add & subtract fractions with common denominators, with mixed numbers
•Multiply fractions by units
•Write decimals as fractions
•Order & round decimal numbers
•Link percentages to fractions & decimals

Design & Technology

- Use research& criteria to develop products which are fit for purpose and aimed at specific groups
- Use annotated sketches, cross-section diagrams & computer-aided design
- Analyse & evaluate existing products and improve own work
- Use mechanical & electrical systems in own products, including programming
- Cook savoury dishes for a healthy & varied diet

Geography

- Name & locate counties, cities, regions & features of UK
- Understand latitude, longitude, Equator, hemispheres, tropics, polar circles & time zones
- Study a region of Europe
- Use fieldwork to record & explain areas

Music

- Perform with control and expression – solo and ensemble work.
- Improvise and compose music, beginning to look at common notation.
- Use various aspects of music in compositions – dynamics, pitch, harmony
- Listen to music in detail and recall aurally
- Use and understand basic staff notation, knowing the difference between bass and treble clef.
- Develop an understanding of the history of music, including famous pieces, musicians and composers.

History

Ancient Greece, i.e.
- A study of Greek life and achievements

Local Study
History of Bedford

Science

Biology
Living things and their habitats
differences in the life cycles of a mammal, an amphibian, an insect and a bird
life process of reproduction in some plants and animals.

Animals, including humans
describe the changes as humans develop to old age.
Chemistry
Properties and changes of materials
classify materials on the basis of their properties,
give reasons for the particular uses of everyday materials, including metals, wood and plastic
understand mixtures and solutions
know about reversible and irreversible changes
Physics
Earth and Space
understand location and interaction of Sun, Earth and Moon
use the idea of the Earth's rotation to explain day and night and the apparent movement of the sun across the sky.
Forces
introduce gravity resistance (air/water resistance) Mechanical forces ,e.g., pulleys, levers

Religious Education

- Ourselves
- Life choices
- Hope
- Mission
- Memorable sacrifice
- Sacrifice
- Transformation
- Freedom and Responsibility
- Stewardship
- Islam
- Judaism

Physical Education

- Use running, jumping, catching and throwing in isolation and in combination
- Play competitive games, modified as appropriate
- Develop flexibility & control in gym, dance & athletics
- Compare performances to achieve personal bests
- *Swimming proficiency at 25m*

Modern Languages

- Listen, & engage through speaking, reading and writing.
- Engage in conversations, expressing opinions
- Speak in simple language & be understood
- Develop appropriate pronunciation
- Present ideas & information orally
- Show understanding in simple reading
- Express opinions
- Adapt known language to create new ideas
- Describe people, places & things
- Understand basic grammar, e.g. gender
- Use verbs to have, to be