



2018/19

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.
- Multiply and divide by powers of ten.
- Confidently add and subtract mentally.
- Use vocabulary of prime, factor and multiple.
- Use square and cube numbers.

Geometry and Measures

- Convert between different units.
- Calculate perimeter of composite shapes and area of rectangles.
- Estimate volume and capacity.
- Identify 3-d shapes.
- Measure and identify angles.
- Understand regular polygons.
- Reflect and translate shapes.

Data

- Interpret tables and line graphs.
- Solve questions about line graphs.

Fractions

- Compare and order fractions.
- Multiply fractions by units.
- Write decimals as fractions.
- Add and subtract fractions with common denominators, with mixed numbers.
- Order and round decimal numbers.
- Link percentages to fractions and decimals.

COMPUTING

- Design and write programs to solve problems.
- Use sequences, repetition, inputs, variables and outputs in programs.
- Understand uses of networks for collaboration and communication.
- Detect and correct errors in programs.
- Be discerning in evaluating digital content.
- Be a good digital citizen, aware of the risks of internet use and able to stay safe online.

SCIENCE

- Compare life cycles of plants and animals (incl. mammal, insect, bird, amphibian.)
- Describe changes as humans develop.
- Classify materials according to a variety of properties.
- Understand mixtures and solutions
- Know about reversible changes; identify irreversible.
- Understand location and interaction of Sun, Earth and Moon.
- Introduce gravity, resistance and mechanical force.

ART & DESIGN

- Use sketches to collect, record, review, revisit and evaluate ideas.
- Improve mastery of techniques such as drawing, painting and sculpture with varied materials.
- Learn about great artists, architects and designers, including Warhol, Dali, Kandinsky and Klimt.

ENGLISH

Reading

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

Writing

- Secure spelling, including homophones, prefixes, silent letters, etc.
- Use a thesaurus.
- Produce legible, fluent handwriting.
- Plan writing to suit audience and purpose.
- Develop character, setting and atmosphere in narrative.
- Use organisational and presentational features.
- Use consistent appropriate tense
- Proofread.
- Perform own compositions.

Grammar

- Use expanded noun phrases.
- Use modal and passive verbs.
- Use relative clauses.
- Use commas for clauses.
- Use brackets, dashes and commas for parenthesis.

Speaking and Listening

- Give well-structured explanations.
- Command of Standard English.
- Consider and evaluate different viewpoints.
- Use appropriate register.

GEOGRAPHY

- Name and locate counties, cities, regions and features of UK.
- Use fieldwork to record and explain areas.
- Develop map skills.
- Recognise and describe the human and physical features of places and appreciate the importance of wider geographical location in understanding places.
- A study of the Americas.

HISTORY

British History

(taught chronologically)

- **Anglo-Saxons and Vikings;** invasion and aspects of life during these times.
- **Britain since 1948;** children demonstrate factual knowledge and understanding of aspects of British life since 1948.

MODERN FOREIGN LANGUAGES

(German)

- Listen and engage.
- Ask and answer questions.
- Speak in sentences using familiar vocabulary.
- Develop appropriate pronunciation.
- Show understanding of words and phrases.
- Appreciate stories, songs, poems and rhymes.
- Broaden vocabulary.

MUSIC

- Sing confidently, with accuracy of rhythm and an awareness of dynamics.
- Record some standard rhythmic notation.
- Analyse the structure of a piece of music.
- Rehearse and perform in a group.
- Describe features of different genres of music.
- Learn how to play a brass instrument (WOPPS).

DESIGN & TECHNOLOGY

- Use research and criteria to develop products which are fit for purpose and aimed at specific groups, e.g. bridge-building.
- Use annotated sketches, cross-section diagrams and modelling.
- Analyse and evaluate existing products and improve own work.
- Use mechanical and electrical systems in own products.
- Cook savoury dishes for a healthy and varied diet.

PHYSICAL EDUCATION

- Use running, jumping, catching and throwing in isolation and in combination.
- Play competitive games, applying basic principles in attacking and defending.
- Take part in outdoor and adventurous activities.
- Develop flexibility and control in gym, dance and athletics.
- Swimming proficiency to at least 25m and water safety.

RELIGIOUS EDUCATION

- Know about and understand a range of religions and worldviews.
- Express ideas and insights about the nature, significance and impact of religions and worldviews.
- Gain and deploy the skills needed to engage seriously with religions and worldviews.
- Gain an understanding of the beliefs of Christians, Muslims, Hindus, Jewish people and Humanists.