

## Maths

### Number and Place Value:

Read, write and order numbers up to 10,000,000

Round any whole number to a required degree of accuracy

Use negative numbers in context and calculate intervals across zero

To solve number and practical problems

### Addition and Subtraction:

Solve multi step addition and subtraction problems in contexts

Add and subtract whole number with more than 4 digits using formal written methods

Add and subtract numbers mentally (increasingly large)

Add and subtract negative integers.

### Multiplication and Division:

Multiply numbers up to 4 digits using formal written methods

Divide numbers up to 4 digits using formal written methods

Factors, multiples, prime numbers, square and cube numbers.

Perform mental calculations with mixed numbers and large numbers

Estimate and use inverse operations and rounding to check answers.

**Fractions:** Use common factors to simplify fractions.

Compare and order fractions

Add and subtract fractions, using multiples and equivalent fractions.

Multiply and divide proper fractions by whole numbers.

Multiply pairs of fractions and simplify.

Identify, name and write equivalent fractions, including decimal fractions.

### Position and direction:

Describe positions on the full coordinate grid

Draw and translate simple shapes on the coordinate plans, and reflect them in the axes

## English

### Writing Composition:

Identify the audience for writing.

Choose the appropriate form of writing using the main features identified in reading. Note, develop and research ideas. Plan, draft, write, edit and improve.

Create vivid images by using alliteration, similes, metaphors and personification. Interweave descriptions of characters, settings and atmosphere with dialogue.

Ensure correct use of tenses throughout a piece of writing.

Write cohesively within and between paragraphs

### Transcription:

Write fluently and legibly with a personal style.

Use prefixes appropriately. Use knowledge of morphology and etymology in spelling and understand that some words need to be learned specifically.

active and passive voice, subject and object, hyphen, synonym, colon, semi-colon, bullet points.

**Presentation:** Perform compositions, using appropriate intonation and volume.

## Science

**Working scientifically:** Plan enquiries, including recognising and controlling variables where necessary. Plan enquiries, including recognising and controlling variables where necessary. Use appropriate techniques, apparatus, and materials during fieldwork and laboratory work. Take measurements, using a range of scientific equipment, with increasing accuracy and precision.

Record data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, bar and line graphs, and models.

Report findings from enquiries, including oral and written explanations of results, explanations involving causal relationships, and conclusions.

Present findings in written form, displays and other presentations.

Use test results to make predictions to set up further comparative and fair tests. Use simple models to describe scientific ideas, identifying scientific evidence that has been used to support or refute ideas or arguments.

**Humans including animals:** Describe the changes as humans develop to old age. Identify and name the main parts of the human circulatory system, and describe the functions of the heart, blood vessels and blood.

Recognise the importance of diet, exercise, drugs and lifestyle on the way the human body functions.

Describe the ways in which nutrients and water are transported within animals, including humans.

## Reading

Apply knowledge of root words, prefixes and suffixes.

Read age-appropriate books with confidence and fluency.

Recommend books to peers, giving reasons for choices.

Identify and discuss themes and conventions in and across a wide range of writing. Make comparisons within and across books.

Learn a wide range of poetry by heart. Prepare poems and plays to read aloud and to perform, showing understanding through intonation, tone and volume so that the meaning is clear to an audience. Check that the book makes sense, discussing understanding and exploring the meaning of words in context.

Draw inferences such as inferring characters' feelings, thoughts and motives from their actions, and justifying inferences with evidence.

Summarise the main ideas drawn from more than one paragraph, identifying key details that support the main ideas.

Discuss and evaluate how authors use language, including figurative language, considering the impact on the reader.

Retrieve and record information from non-fiction.

Participate in discussion about books, taking turns and listening and responding to what others say.

Distinguish between statements of fact and opinion.

## Vocabulary

Healthy  
Circulatory  
System  
Oxygenated  
Organ  
Preserve  
Inundation  
Reincarnation  
Polytheism  
Monotheism

## Music

**Perform:** Sing or play from memory with confidence. Perform solos or as part of an ensemble. Sing or play expressively and in tune. Hold a part within a round.

Sing a harmony part confidently and accurately. Sustain a drone or a melodic ostinato to accompany singing. Perform with controlled breathing (voice) and skilful playing (instrument).

**Describe music:** Choose from a wide range of musical vocabulary to accurately describe and appraise music. Describe how lyrics often reflect the cultural context of music and have social meaning.

## R.E.

### Philosophy – Islam

Key enquiry question: How do people respond to issues of poverty and justice?

Muslim perspectives on moral issues, including the idea of 'intention'; The importance of Ramadan; Ethical theory; The Masjid (mosque) and the five pillars of Islam

### Philosophy – Hinduism

Key enquiry question: Is it possible for something to always be right?

The different views about the nature of knowledge, meaning and existence; introducing ethical theory; Global diversity within study of Hinduism

## Geography

Use statistics and other information to form conclusions about locations. Identify and describe how the physical features affect the human activity within a location.

Use a range of geographical resources to give detailed descriptions and opinions of the characteristic features of a location.

Describe geographical diversity across the world.

Describe and understand key aspects of **human geography**

Use the eight points of a compass, four-figure grid references, symbols and a key to communicate knowledge of the UK and the World

Create maps of locations identifying patterns

## D.T.

**Food:** Create and refine recipes, including ingredients, methods, cooking times and temperatures. Demonstrate a range of baking and cooking techniques. Measure accurately and calculate ratios of ingredients to scale up or down from a recipe. Understand the importance of correct storage and handling of ingredients (using knowledge of micro-organisms).

**Computing:** Write code to control and monitor models or products.

## RSHE

**Try new things:** Enjoy new things and take opportunities wherever possible.

Find things to do that give energy.

Become fully involved in clubs or groups.

Meet up with others who share interests in a safe environment.

**Working hard:** Have fun working hard.

Understand the benefits of effort and commitment.

Continue to practise even when accomplished.

Encourage others by pointing out how their efforts gain results.

**Concentrate:** Give full concentration.

‘Tune out’ most distractions.

Understand techniques and methods that aid concentration.

Develop expertise and deep interest in some things.

## History (Ancient Egypt – a historical study of the history of the ancient civilisation and its customs)

Select suitable sources of evidence. Use sources of information to form testable hypotheses about the past. Seek out and analyse a wide range of evidence in order to justify claims about the past. Understand that no single source of evidence gives the full answer. Refine lines of enquiry as appropriate. Compare some of the times studied with other areas of interest in the world. Use dates and terms accurately in describing events.

Use appropriate historical vocabulary to communicate, including dates, time period, era, chronology, continuity, change, century, decade

## Art and Design

**Developing ideas:** collect and present ideas imaginatively in a sketch book. Develop and imaginatively extend ideas from starting points. Use the qualities of materials to enhance ideas. Spot the potential in unexpected results as work progresses. Comment on artworks with a fluent grasp of visual language

**Collage:** Use ceramic mosaic materials and techniques

**Sculpture:** Show life-like qualities and real-life proportions or, if more abstract, provoke different interpretations. Use tools to carve and add shapes, texture and pattern. Combine visual and tactile qualities. Use frameworks (such as wire or moulds) to provide stability and form

**Drawing:** Choose a style of drawing suitable for the work. Use lines to represent movement.

**Print:** Build up layers of colours. Create an accurate pattern, showing fine detail. Use a range of visual elements to reflect the purpose of the work.

## Computing

**Collect:** Select appropriate applications to devise, construct and manipulate data and present it in an effective and professional manner.

**Communicate:** Use many of the advanced features in order to create high quality, professional or efficient communications. Choose the most suitable applications and devices for the purposes of communication.

**Connect:** Collaborate with others online on sites approved and moderated by teachers. Give examples of the risks of online communities and demonstrate knowledge of how to minimise risk. Understand how simple networks are set up and used. Understand and demonstrate knowledge that it is illegal to download copyright material, including music and games without written permissions

## MFL (Spanish)

**Read Fluently:** Read and understand the main points and some of the detail in short written texts; Read and understand the main points and opinions in written texts from various contexts, including present, past or future events; Show confidence in reading aloud, and in using reference materials.

**Write imaginatively:** Write short texts on familiar topics; Use dictionaries or glossaries to check words; Refer to recent experiences or future plans, as well as to everyday activities; Include imaginative and adventurous word choices. Convey meaning (although there may be some mistakes, the meaning can be understood with little or no difficulty) **Speak confidently:**

Understand the main points and opinions in spoken passages; Give a short-prepared talk that includes opinions; Take part in conversations to seek and give information; Refer to recent experiences or future plans, everyday activities and interests; Vary language and produce extended responses; Be understood with little or no difficulty. **Understanding culture of countries:** Give detailed accounts of the customs, history and culture of the countries and communities where the language is spoken.

## P.E.

**Games:** Work alone, or with team mates in order to gain points or possession.

Field, defend and attack tactically by anticipating the direction of play.

Choose the most appropriate tactics for a game.

Uphold the spirit of fair play and respect in all competitive situations.

Lead others when called upon and act as a good role model within a team.

**Swimming:** swim over 100 metres unaided, use breaststroke, front crawl and backstroke, turn efficiently and swim fluently with controlled strokes.

**OAA-** assess changing conditions and adapt plans safely. Use a range of devices to orientate themselves. Remain positive in challenging circumstances, rallying others.

Empathise with others and offer support. Seek support from the team and the experts. Embrace both leadership and team roles, gain the commitment and respect of a team. Select appropriate equipment for outdoor and adventurous activity. Identify possible risks and ways to manage them, asking for and listening carefully to expert advice.