

Curriculum Overview Year 6

English (see this link for greater detail)

English lessons are linked with our termly curriculum topics. Within each unit of work, we follow the National Curriculum for reading, writing, grammar, spelling and handwriting. In reading, we study authors, poets and a range of novels throughout the year, which are used to help stimulate language and writing. We use the reciprocal reading strategy to teach reading in English. These key skills are:

- predicting
- clarifying
- questioning
- summarising.

We use a range of reading schemes, including 'Bug Club' to also teach reading comprehension. For spelling we use 'Read, Write, Inc' spelling and 'Read, Write, Inc' phonics.

Throughout the year children will learn how to write: a variety of stories and poems, diaries, letters, discussions, newspaper reports, play scripts, persuasive arguments, non-chronological reports, explanations and persuasive leaflets.

Mathematics (see this link for greater details)

The Programme of Study for Year 6 includes the following key areas:

- Number and place value
- Mental and written methods for addition and subtraction
- Mental and written methods for multiplication and division
- Fractions (Including decimals and percentages)
- Ration and proportion/Algebra/Measurement / Statistics
- Geometry (Properties of space and position and direction)

Number/Calculation

- Secure place value & rounding to 10,000,000, including negatives
- All written methods, including long division
- Use order of operations (not indices)
- Identify factors, multiples & primes
- Solve multi-step number problems

Algebra

- Introduce simple use of unknowns

Geometry & Measures

- Confidently use a range of measures & conversions
- Calculate area of triangles / parallelograms
- Use area & volume formulas Classify shapes by properties Know and use angle rules Translate & reflect shapes, using all four quadrants

Data

- Use pie charts & Calculate mean averages

Fractions, decimals & percentages

- Compare & simplify fractions
- Use equivalents to add fractions Multiply simple fractions
- Divide fractions by whole numbers Solve problems using decimals & percentages
- Use written division up to 2dp Introduce ratio & proportion

WhiteRose schemes of learning are used in Year 6 to guide the teaching and learning of Mathematics. Lessons at Rednal Hill begin with a problem which is explored by the children in many ways. Children will consider many possibilities to answering the problem looking at most efficient methods. The children are then able to practice these skills in a varied context before accessing their independent activity.

Children broadly move at the same pace during the lesson and opportunities for children to explore concepts at greater depth is planned for when children have mastered this content.

Science

- Classification; Families and inheritance
- Living things and their habitats
- Human circulatory system; Measuring heart rate; History of blood groups; Lifestyle effects;
- Light and shadows
- Working scientifically

History

- The Second World War
- Social reformers
- Emigration and exploration in the early 1900s
- Ancient Maya civilisation

Art

- Portraiture and figurines
- Painting; Block printing
- Modelling and sculpture; Abstract art
- Sculpture; Maya art; Carving
- Great artists of the 19th and 20th centuries

Design & Technology

- Following recipes; Building structures
- Using tools; Design; Fashion and clothing
- Building an igloo
- Selecting tools and equipment; Healthy recipes; Product packaging; Working models
- Food of Mexico; Evaluating and making instruments

Modern Foreign

- Understand basic grammar
- Apply grammar to build sentences
- Write phrases from memory
- Speak in sentences using familiar vocabulary and basic language structures

Language (French)

Physical Education

Pupils should be taught to:

- use running, jumping, throwing and catching in isolation and in combination
- play competitive games, modified where appropriate and apply basic principles suitable for attacking and defending
- develop flexibility, strength, technique, control and balance
- perform dances using a range of movement patterns
- take part in outdoor and adventurous activity challenges both individually and within a team
- compare their performances with previous ones and demonstrate improvement to achieve their personal best.

<http://www.rednalhilljuniors.com/our-school/curriculum/pe>

Computing

- To collect and present data using spreadsheets
- Research, evaluate and create website structures
- Select, use and combine software to create animated stories
- To create a 3D scene using programming blocks
- Use digital devices to create a scripted film

Geography

- Human geography; Cities of the UK
- Local community/Where I live
- Features of the polar regions
- Using maps; Human and physical geography of Mexico
- Locational knowledge

Music

- Listening, performing and composing
- Appraising; Listening to voices
- Soundscapes
- Pulse; Heart raps
- Mexican music; Musical notation
- Listening, improvising and composing

Religious Education

Choice

Living by Rules. Being Fair and Just

Community

Creating Unity and Harmony. Cultivating Inclusion, Identity and Belonging

Commitment

Remembering Roots. Being Courageous and Confident

Compassion

Being Respectful of Suffering. Being Merciful and Forgiving

Creativity

Appreciating Beauty (Expressing Joy)

Contemplation

Being Reflective and Self Critical. Being Curious and Valuing Knowledge

(PSHE curriculum)