

Year 5 – Objectives and learning opportunities: Spring Term

One Small Step - Spring term

English – text suggestions

I Have a Dream - Martin Luther King
Nobel Peace Prize Speech – Malala
If Today Were the Last Day of my Life –Steve Jobs
If You Want to Change the World – William McRaven

Airlock – Simon Cheshire

English – writing opportunities

Speech Writing
 Science Fiction Narratives
 Newspaper Articles
 Biographies

Cross-curricular writing opportunities

An account of the Battle of Britain
 History of the RAF
 History of Parliament
 Rocket Evaluation
 Discussion text of Crossrail

History

Study the history of parliament and the suffragettes

Pupils should be taught about:

An aspect of British history extending past 1066

Examples (non-statutory)

This could include:

- Research the history and modern workings of the houses of parliament through note-taking
- Research the suffragettes and design a poster (look at the Dearsley window)
- To look at the RAF centenary, the beginnings of the RAF and write an account of the Battle of Britain
- Make Top Trumps cards of iconic aircraft

Geography

Studying Tourist Maps of London and the Impact of Crossrail

Locational knowledge:

Study UK counties, cities, regions, physical features, land use and changes over time.

Geographical skills and fieldwork:

Use eight points of the compass, four- / six-figure grid references, symbols and keys

Science

Working scientifically (likely all units)::

- Plan different types of enquiry to answer questions
- Take accurate measurements and repeat them if needed
- Record increasingly complex data in various ways
- Use results to make predictions and suggest further tests
- Present findings orally and in writing
- Identify scientific evidence for or against an idea

Earth and Space:

Pupils should be taught to:

- Describe the movement of Earth and other
- planets relative to the Sun and of the Moon relative to Earth
- Use Earth's rotation to explain day and night.

Changing Materials:

Pupils should be taught to:

- Classify materials according to various properties
- Know that some materials dissolve in water to form a solution
- Separate mixtures of materials
- Give reasons for particular uses of everyday materials
- Explore reversible changes and changes that are difficult to reverse

Art and design

This set of aims and objectives are developed throughout key stage 2.

Studying the Dearsley Window and making a stained glass window based on a theme.**Aims**

The national curriculum for art and design aims to ensure that all pupils:

- produce creative work, exploring their ideas and recording their experiences
- become proficient in drawing, painting, sculpture and other art, craft and design techniques
- evaluate and analyse creative works using the language of art, craft and design
- know about great artists, craft makers and designers, and understand the historical and cultural development of their art forms.

Pupils should be taught to develop their techniques, including their control and their use of materials, with creativity, experimentation and an increasing awareness of different kinds of art, craft and design.

Pupils should be taught:

- to create sketch books to record their observations and use them to review and revisit ideas
- to improve their mastery of art and design techniques, including drawing, painting and sculpture with a range of materials [for example, pencil, charcoal, paint, clay]
- about great artists, architects and designers in history.

Design and Technology

This set of aims and objectives are developed throughout key stage 2.

Designing and making a pressure rocket**Aims**

The national curriculum for design and technology aims to ensure that all pupils:

- develop the creative, technical and practical expertise needed to perform everyday tasks confidently and to participate successfully in an increasingly technological world
- build and apply a repertoire of knowledge, understanding and skills in order to design and make high-quality prototypes and products for a wide range of users
- critique, evaluate and test their ideas and products and the work of others
- understand and apply the principles of nutrition and learn how to cook.
- Through a variety of creative and practical activities, pupils should be taught the knowledge, understanding and skills needed to engage in an iterative process of designing and making. They should work in a range of relevant contexts [for example, the home, school, leisure, culture, enterprise, industry and the wider environment].
- When designing and making, pupils should be taught to:

Design

- use research and develop design criteria to inform the design of innovative, functional, appealing products that are fit for purpose, aimed at particular individuals or groups
- generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computer-aided design

Make

- select from and use a wider range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing], accurately
- select from and use a wider range of materials and components, including construction materials, textiles and ingredients, according to their functional properties and aesthetic qualities

Evaluate

- investigate and analyse a range of existing products
- evaluate their ideas and products against their own design criteria and consider the views of others to improve their work
- understand how key events and individuals in design and technology have helped shape the world

Technical knowledge

- apply their understanding of how to strengthen, stiffen and reinforce more complex structures
- understand and use mechanical systems in their products [for example, gears, pulleys, cams, levers and linkages]
- understand and use electrical systems in their products [for example, series circuits incorporating switches, bulbs, buzzers and motors]
- apply their understanding of computing to program, monitor and control their products.

Cooking and nutrition

- understand and apply the principles of a healthy and varied diet
- prepare and cook a variety of predominantly savoury dishes using a range of cooking techniques
- understand seasonality, and know where and how a variety of ingredients are grown, reared, caught and processed.

Music

This set of aims and objectives are developed throughout key stage 2.

Space inspired music**Aims:**

perform, listen to, review and evaluate music across a range of historical periods, genres, styles and traditions, including the works of the great composers and musicians

learn to sing and to use their voices, to create and compose music on their own and with others, have the opportunity to learn a musical instrument, use technology appropriately and have the opportunity to progress to the next level of musical excellence

understand and explore how music is created, produced and communicated, including through the inter-related dimensions: pitch, duration, dynamics, tempo, timbre, texture, structure and appropriate musical notations.

Pupils should be taught to sing and play musically with increasing confidence and control. They should develop an understanding of musical composition, organising and manipulating ideas within musical structures and reproducing sounds from aural memory.

Pupils should be taught to:

- play and perform in solo and ensemble contexts, using their voices and playing musical instruments with increasing accuracy, fluency, control and expression
- improvise and compose music for a range of purposes using the inter-related dimensions of music
- listen with attention to detail and recall sounds with increasing aural memory
- use and understand staff and other musical notations
- appreciate and understand a wide range of high-quality live and recorded music drawn from different traditions and from great composers and musicians
- develop an understanding of the history of music.

Computing

Design, Make and Debug a Computer Game

- Design, write and debug programs
- Use sequence, selection and repetition in programs
- Use logical reasoning
- Use technology safely, respectfully and responsibly

PE

The national curriculum for physical education aims to ensure that all pupils:

- develop competence to excel in a broad range of physical activities
- are physically active for sustained periods of time
- engage in competitive sports and activities
- lead healthy, active lives.

At KS2 pupils should be taught to:

- use running, jumping, throwing and catching in isolation and in combination
- play competitive games, modified where appropriate [for example, badminton, basketball, cricket, football, hockey, netball, rounders and tennis], and apply basic principles suitable for attacking and defending
- develop flexibility, strength, technique, control and balance [for example, through athletics and gymnastics]
- 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
- swim competently, confidently and proficiently over a distance of at least 25 metres
- use a range of strokes effectively [for example, front crawl, backstroke and breaststroke]
- perform safe self-rescue in different water-based situations.

