



Year 5 National Curriculum Objectives

Geography

Topics:

North & South America

NC Objectives:

Locate the world's countries, with focus on North and South America and countries of particular interest to pupils.

Identify key geographical features of the countries of the United Kingdom and show an understanding of how some of these aspects have changed over time.

Understand the significance of the geographic zones of the world.

Understand geographical similarities and differences through the study of physical and human geography of a region or area within North or South America.

Use maps, atlases, globes and digital computer mapping to locate countries and describe the features studied.

Use the eight-points of a compass, four-figure grid reference, symbols and keys (including the use of Ordnance Survey maps) to build knowledge of the United Kingdom and the World.

Use a wide range of geographical sources in order to investigate places and patterns.

History

Topics:

Ancient Greece
Mayan Civilization

NC Objectives:

Ancient Greece

A non-European society that contrasts with British history chosen from:

- Early Islamic Civilization
- **Mayan Civilization**
- Benin

History of interest to pupils.

Art & Design

Topics:

Sculpture – Mouldable Materials (+artist)
Painting with acrylic (+artist)

NC Objectives:

Use experiences, other subjects across the curriculum and ideas as inspiration for artwork.

Develop and share ideas in a sketch book and in finished products.

Improve mastery of techniques.

Learn about the great artists, architects and designers in history.

Music

NC Objectives:

Play and perform in solo and ensemble contexts, using voice and playing instruments with increasing accuracy, control and expression.

Listen with attention to detail and recall sounds with increasing aural memory.

Improvise and compose music using the inter-related dimensions of music separately and in combination.

Use and understand the basics of the staff and other musical notation.

Appreciate and understand a wide range of high-quality live and recorded music from different traditions and from great musicians and composers.

Develop an understanding of the history of music.

Design & Technology

Topics:

Materials - an event and or individuals
Mechanisms – an event and or individuals
DT Computing (Control & Modelling)
Textiles - an event and or individuals

NC Objectives:

Design:

Use research and develop design criteria to inform the design of an innovative, functional appealing products that are fit for purpose, aimed at particular individuals or group.

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, such as 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 technology have helped to shape the world.

Technical Knowledge:

Understand and use mechanical systems in their products, such as gears, pulleys, cams, levers and linkages.

Apply their understanding of computing to programme, monitor and control their products.

Science

Topics:

Living things and their Habitats
Animals including Humans (Aging)
Life Cycles and reproduction
Properties and changes of materials
Earth and Space
Forces and Mechanisms

NC Objectives:

Biology: Animals and Humans:

Look at the function parts of a flowering plants, requirement of growth, water, and transportation in plants, life cycles and seed dispersal.

Evolution and inheritance.

All Living Things:

Look at the life-cycle of animals and plants

Look at reproduction in plants and animals, and human growth and change.

Chemistry: Materials:

Examine the properties of materials using various tests.

Look at solubility and recovering dissolved substances.

Separate mixtures.

Examine changes to materials that create new materials that are usually not reversible.

Physics: Forces and Magnets:

Look at the effect of gravity and drag forces.

Look at transference of forces in gears, pulleys, levers and springs.



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Physics: Earth and Space:

Look at the movement of the Earth and the Moon.

Explain day and night.

Working Scientifically:

Across all year groups scientific, knowledge and skills should be learning by working scientifically.

PE:

NC Objectives:

Play competitive games, modified where appropriate, such as football, netball, rounders, cricket, hockey, basketball, badminton and tennis and apply basic principles suitable for attacking and defending.

Take part in gymnastics activities.

Take part in athletic activities.

Perform dances.

Take part in outdoor and adventurous activity challenges both individually and with a team.

Swimming and water safety, take swimming instruction either in key Stage 1 or 2.

Computing

Topics:

e-safety
Coding
Using Data

Design and write programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts.

Use sequences, selections and repetition in programs; work with variable 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, detect and correct errors in algorithms and programs.

Understand computer networks including the internet; how they can provide multiple services, such as the world wide web, and the opportunities they offer for communication and collaboration.

Describe how internet search engines find and store data; use search engines effectively; be discerning in evaluation digital content; respect individuals and intellectual property;

use technology responsible, securely and safely.

Select, use and combine a variety of software (including internet services) on a range of digital devices to accomplish given goals, including collecting, analysing, evaluating and presenting data and information.

Languages:

Topics:

French

NC Objectives:

In the chosen modern language:

- Speak
- Read
- Write

Look at the culture of the countries where the language is spoken

If an ancient language is chosen, read translate and explore the culture of the time.

The Haven VA CE/Methodist Primary School

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