



The Holt Primary School

Headteacher: Mrs Julie Leach B.Ed(Hons) NPQH



Long Term Planning Overview 2023-2024

Please insert the NC or framework objectives which you plan to teach for the term. Please blank out any aspects not part of the topic.

Year: 4

Term: SUMMER

Teacher: Mr Kelk

Topic title: Planes, Trains and Automobiles

MAIN DRIVER: Science Design and Technology History of transport	TOPIC DESCRIPTION: Through the theme of transport, this topic encourages the children to be Scientists, engineers and designers. Whilst experimenting with forces and magnets they will understand pushing, pulling, gravity and how things work. They will study key famous people in history who invented machines such as the aeroplane and the first steam train and begin to understand the role of the engineer in our history. Inspired by books about the story of flight, the children will learn about the life of Emelia Earhart and the Wright Brothers. They will also study Leonardo Da Vinci's part in creating important machines. As designers, they will study the automobile and design and make their own powered vehicle using their knowledge of mechanisms that will make machines work. They will design through exploring how things work, initiating ideas and testing them before evaluating. This term's topic will give everyone the opportunity to really understand the design process.
SUBJECT	NATIONAL CURRICULUM/Framework OBJECTIVES
Geography NC	
History NC	a study of an aspect or theme in British history that extends pupils' chronological knowledge beyond 1066 – understanding the chronology of transport and how that links with their understanding of previous topics eg Vikings and Stone Age-looking at transport timelines through history. a significant turning point in British history, for example, the first railways.
Science NC	Pupils should be taught to: - compare how things move on different surfaces - notice that some forces need contact between two objects, but magnetic forces can act at a distance - observe how magnets attract or repel each other and attract some materials and not others - compare and group together a variety of everyday materials on the basis of whether they are attracted to a magnet, and identify some magnetic materials - describe magnets as having two poles - predict whether two magnets will attract or repel each other, depending on which poles are facing. Plants: Pupils should be taught to: - identify and describe the functions of different parts of flowering plants: roots, stem/trunk, leaves and flowers - explore the requirements of plants for life and growth (air, light, water, nutrients from soil, and room to grow) and how they vary from plant to plant - investigate the way in which water is transported within plants - explore the part that flowers play in the life cycle of flowering plants, including pollination, seed formation and seed dispersal. Animals/Humans: Pupils should be taught to: - identify that animals, including humans, need the right types and amount of nutrition, and that they cannot make their own food; they get nutrition from what they eat - identify that humans and some other animals have skeletons and muscles for support, protection and movement.
DT NC	Design and make a moving vehicle 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

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	- 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] Term 6 Food: Linking with Science-plants 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.
Art NC	Disciplines: Drawing, Sketchbooks, Sculpture Key Concepts: - That artists can learn from the world around them. That artists can draw parallels with other beings/events to help us understand things about ourselves. - That artists take creative risks. That artists try to say new things by manipulating and representing the materials of the world. - That we can feel safe enough to take creative risks in our own work. That we can explore materials and ideas feeling free from criticism. - That we can express our personality through the art we make. - That we can use materials, tools and the ideas in our head to explore line, shape, form, balance and structure. - That making art can be hard, but that doesn't mean we aren't doing it right or aren't good at it. It just means we are doing it.
PE NC	Term 5 – Athletics Term 6- Striking and Fielding - Cricket / Rounders
RE Agreed syllabus	LAS Compulsory God - Christianity <i>Believing</i>

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	Unit 3: 'God' (Christianity) <i>[How do symbols in the Bible help Christians relate to God? What do symbols in the story of Jesus' baptism reveal about the nature of God? What visual symbols and symbolic acts can be seen in a Christian church? How might language within worship express Christian beliefs?]</i> B1, B2 T2, T3
PSHE One decision	Feelings and emotions- Jealousy Computer safety
Computing NC	Term 5 - Effective searching Term 6 – Making music
Enrichment Computer science NC	
Music NC	Term 5 – ancient worlds Term 6 – In the past
MFL NC	Term 5 – What's the time? Term 6 – Holidays and hobbies
Enrichment Outdoor learning/well being	
OTHER ASPECTS	ADDITIONAL INFORMATION
Writing Genres	Biography Persuasive poster-linked to Flying Machine Explanation text-linked to Science-plants Fantasy narrative inspired by shaun Tan The lost thing Cross curricular- post cards/letters/writing in role linked to quality texts
Mathematical links	Measuring skills/problem solving linked to practical making and designing vehicle Real life engineers- what Maths was involved? Using weight- measuring our ingredients Food Technology
Quality Texts	Journey-Aaron Becker Farther- Grahame Baker Smith Ocean Meets Sky -The Fan Brothers Little people big dreams-Amelia Earhart Graphic Novel- It's her story-Amelia Earhart The Story of Flight Fantastic Forces and Incredible Machines Stephen Beisty's Flying Machines
Key experiences	Trip to The Magna science museum
Discreet Subjects	Science-plants/animals including humans
Linked Subjects	History Art
Enrichment arrangements	