Harrow Gate Primary Academy Geography Big Ideas







Harrow Gate Primary Academy **History** Big Ideas







Recall important narrative



<u>A study of an aspect or theme in British history that extends</u> pupils' chronological knowledge beyond 1066

What were the risks to a poor family in Victorian Britain? (Autumn 1)

Confidently use dates and terms related to the passing of time

Consider different aspects of the life of different people / classes. **contrasts**

Compare life in early and late times studied **trend over time** Timeline

Health

Child Labour

Housing

Poverty – bias and opinion

Crime

Society

What was life like in the trenches during WW1? (Autumn 1)

To use historical sources to identify trends

To question the validity of sources – propaganda / fake news

Identify how belief can have an **impact** on historical

events Cause Effect Trench life Propaganda The soldiers



×

The achievements of the earliest civilizations – an overview of where and when the first civilizations appeared What was the role of the river Nile in developing the Ancient Egyptian empire? (Summer 2) Confidently use dates and terms related to the passing of time Consider different aspects of the life of different people / classes. contrasts Compare life in early and late times studied trend over time Nile – continent, countries and size Ancient Egypt cities Ancient Egypt transport Ancient Egypt Technology Trade and civilisation Empire Who was persecuted during the Nazi regime and why?

(Summer 2) To use historical sources to identify trends To question the validity of sources – propaganda / fake

news

Identify how belief can have an **impact** on historical events

German culture 1933

Success of the Jews The Nazi party Propaganda Rise of The Nazi Party 1933 – 1945 Persecution of minorities Persecution of Jews



Year 6

History at Harrow Gate Primary Academy

INTENT:

History intends to prepare each student for their next phase of education whilst at the same time giving all students a broad and balanced view of the History of Britain and other societies and epochs. In this, students will develop a well-rounded knowledge of the past and its events, with intention to improve every students' cultural capital, understanding of the world around them and their own heritage. History at Harrow Gate aims to be ambitious, and motivating. Ambitious in our coverage of History and thorough teaching of Historical skills. Motivating, through engaging activities, trips and visitors that give all students an opportunity to question the past.

At Harrow Gate Primary School, we have designed our History curriculum with the intent that our children will:

Become increasingly critical and analytical thinkers

Possess a secure understanding of the chronology of the British Isles and other import periods of History

To discover links and connections to the History they learn and the wider community and locality $% \left({{{\rm{T}}_{\rm{T}}}} \right)$

Further their knowledge and explanations of change and continuity over time with regards to the history of the British Isles and other societies and epochs

Differentiate between source types and explain how interpretations in History may differ

Draw on similarities and differences within given time frames and across previously taught History

Enquire in to Historical themed questions and form their own opinions and interpretation of the past

Harrow Gate Primary Academy Art Big Ideas











Perspective Art Filippo Brunelleschi 1377 - 1446 Leonardo DaVinci 1442 - 1519 Pietro Peruguino 1446 - 1523 Henry <u>Moor</u>e Silvestre Santiago (Pejac)



Harrow Gate Primary Academy Religious Education Big Ideas



What are the key beliefs of Islam? Year 6 1.Key beliefs of Islam INTENT 2.Holy scripture and Key Leaders -**Pilgrimage:** Prophet Mohammed pbuh 1.Key beliefs of Buddhism 3.Symbols, worship, important places 2.What religious sources and texts say about and pilgrimage (\star) What are the key beliefs of Sikhism pilgrimage/life and death 4. What is expected of a Muslim **\$** The impact of influential and inspirational How do they practice their faith and 1.Kev beliefs of Sikhism people on worship and pilgrimage. what contribution does this make to 2.What the Gurus of Sikhism say about 3. Where do religious followers go on pilgrimage local life God, the world and human life. and why do they do this How do Muslims respond to global Guru Nanak – his life and teachings. issues, human rights, fairness, social 3.How the 5Ks are symbolic to Sikhs. justice and environmental issues 4. How do Sikhs do what is expected of How are Christmas and Diwali similar and them in today's world. different? 1.What Christians believe about Christmas. 2. The Nativity and its importance to Christians. Are all Christian churches the same and do all Christians 3. Christian beliefs and how they celebrate believe the same thing? Year Christmas. 1. What different Christian denominations believe about Christian symbols and places of worship. their faith. 4. What is expected of a Christian child. 2. The Bible outlines Jesus' words to his disciples. The Bible Secular traditions at Christmas. gives two accounts of the Christmas Story. 3. How Christians worship and why they carry out particular 1.What Hindus believe about Diwali. rituals. 2. The Story of Rama and Sita and its importance to How places of worship and religious symbols differ/are Hindus. similar for different Christian denominations. 3. Hindu beliefs and how they celebrate Diwali. 4. The expectations of Christian communities. Hindu symbols and places of worship. 4. What is expected of a Hindu child. How are Christmas and Hanukkah similar and different? 1. What the key beliefs of Christianity are. ′ear 2. The sacred events of The Nativity. Why do we celebrate Christmas? How do people Who the important Christian figures in our community are. celebrate Christmas? 3. How and why Christmas is important to Christians Know some similarities and differences between Year ' Christian symbols and how they express religious meaning. different religious and cultural communities in this 4. What Christians do in school to celebrate. country People who practise Christianity are called Christians

Christians celebrate Christmas

It is celebrate the birth of Jesus Christ

1.What the key beliefs of Judaism are. 2. The story of Hanukkah.

'ear

3. Jewish symbols and how they express religious meaning. The celebrations involved in the festival of Hanukkah and where these take place.

Religious Education at Harrow Gate Primary Academy

Religious Education has a significant role for the development of pupils' spiritual, moral, social and cultural development. It promotes respect and open-mindedness towards others with different faiths and beliefs and encourages pupils to develop their sense of identity and belonging through self-awareness and reflection. The principle aim of RE is to engage pupils in an enquiry approach where they can develop an understanding and appreciation for the expression of beliefs, cultural practices and influence of principle religions and worldviews in the local, national and wider global community. The key aims for religious education are reflected in the two attainment targets.

Attainment Target 1- Learning about region and belief Attainment target 2- Learning from religion and belief The development of knowledge, skills and understanding focuses on these two key aspects of learning in Religious Education.





STEM at Harrow Gate Primary Academy



What is STEM:

STEM stands for science, technology, engineering, and mathematics. STEM is important because it pervades every part of our lives. Science is everywhere in the world around us. Technology is continuously expanding into every aspect of our lives. Engineering is the basic designs of roads and bridges, but also tackles the challenges of changing global weather and environmentally-friendly changes to our home. Mathematics is in every occupation, every activity we do in our lives. By exposing students to STEM and giving them opportunities to explore STEM-related concepts, they will develop a passion for it and hopefully pursue a job in a STEM field. A curriculum that is STEM-based has real-life situations to help the student learn

Science INTENT:

A high-quality Science education provides the foundations for understanding the world through the specific disciplines of **biology**, **chemistry** and **physics**. Science has changed our lives and is vital to the world's future prosperity, and all pupils should be taught essential aspects of the knowledge, methods, processes and uses of science. Through building up a body of key foundational knowledge and concepts, pupils should be encouraged to recognise the power of rational explanation and develop a sense of excitement and curiosity about natural phenomena. They should be encouraged to understand how science can be used to explain what is occurring, predict how things will behave, and analyse causes.

Design and Technology INTENT:

Design and Technology prepares children to take part in the development of today's rapidly changing world. Creative thinking encourages children to make positive changes to their quality of life. The subject encourages children to become autonomous and creative problem-solvers, both as individuals and as part of a team. It enables them to identify needs and opportunities and to respond by developing ideas and eventually making products and systems. Through the study of design and technology they combine practical skills with an understanding of aesthetic, social and environmental issues, as well as functions and industrial practices. This allows them to reflect on and evaluate present and past design and technology, its uses and its impacts. Design and technology helps all children to become discriminating and informed consumers and potential innovators. We live in a technological age, surrounded by artefacts and systems which have been produced, designed and made for us by other humans working together in a complex range of activities.

Through the use of an integrated STEM curriculum the children are innovative problem solvers using their acquired procedural and declarative knowledge across many subjects

Animals including Humans Autumn 1 & 2 (Offspring, needs for survival) Understand basic needs for survival To use understanding of healthy food and cutting skills to design and make a healthy snack.

Food and Nutrition DT Prior Learning: EYFS Healthy eating and food names. Content: Food hygiene Food processes and equipment Cutting terminology / skills

Plants Summer 1

Learning Intention:

To identify the basic parts of a flowering plant and a tree

To understand the basic functions of the flower, stem, leaves and roots To understand the basic functions of a **tree**.

Parts and functions of a plant.

What does a plant need to grow? Summer 1 Plants The structure of a plant; Flower Stem Leaves Roots We use plants as food Vegetable Fruit. Common plants in our area Simple plant lifecycle

What does a plant need to grow? Summer 2 Basic needs – water, sun, soil, seeds Stem Leaves Roots Insects found in your garden





Biology at Harrow Gate Primary Academy

Living things and their Habitats Summer 1&2

Use their understanding of living things and their habitats to apply to a real life context

Why do we need to know more about certain animals (endangered animals, human impact)?

How can we use our knowledge to observe animals in their natural habitats

Famous Scientist - Jane Goodall Biologist Study of gorillas in natural habitat. Effects of humans on this family group

Plants Spring 1

(seed and bulb, what plants need to grow) Understand the difference between a seed and a bulb

Understand what a plant needs to **germinate** Understand how certain conditions can affect **germination**

Animals including humans Summer 2 Learning Intention:

- •To name common animals.
- •To know how animals are grouped (5 categories).
- •To understand how you can identify animals.
- •To name and label the parts of the human body.
- •Be able to place animals into groups dependent on their characteristics

How can we help our environment? Spring 2 Water reuse and saving Recycle paper in the environment Litter Compost. Some creatures and insects from our garden also help it grow and develop Some creatures and insects can be harmful to our garden and environment plants. Simple insect life cycle

Are all baby animals the same? What animals will you find on a farm? Summer 1 Chick life cycle Farm animals and their young

Animals Including Humans Autumn 1

Identify and name the main parts of the human circulatory system

Describe how water and nutrients are transported through the body.

Explain the impact of diet, exercise, drugs and lifestyle on the way the body functions.

DT – Food and Nutrition

Living Things and their Habitats Spring 1

To know the differences in the life cycles of a mammals, amphibian , insect and a bird Describe the life process of **reproduction** in plants and animals

Living things and their habitats Spring 2

Understand that vertebrates can be grouped due to their characteristics.

Use this understanding to use and create classification keys To know that environments are changing and how this affects the wildlife.

Basic classification, environment

David Attenborough

PLANTS Spring 1

To understand the functions of a flowering plant (plant, tree)

Understand how water is transported through a plant (transpiration)

Understand how the processes of pollination, seed formation and seed dispersal in flowering plants.

Understand the needs of particular plants (e.g. a cactus, volcanic plants etc.)

6 5 4 3

Biology at Harrow Gate Primary Academy

Living Things and Their Habitats Spring 1

Describe how living things can be classified into broad groups according to common observable characteristics

Understand the characteristics particular of plants, animals and microorganisms

- Justify reasons for classifying living things.
- Famous Scientist: Carl Linnaeus

Evolution and Inheritance Autumn 2

Understand that living things have changed over time **(evolved)**. Recognise that living things produce offspring which are similar but not identical

Identify how plants and animals are **adapted** to their environment. Famous scientist: Charles Darwin Mary Anning Alfred Wallace

Animals including humans Summer 1 Understand and describe the changes in humans

as they age.

6

3

6

5

Animals Including Humans Summer 2

To know the basic parts and functions of the **digestive system** in humans. To identify the different types of teeth and functions in humans. To be able to construct food chains

Animals including humans (Nutrition) Summer term

To understand that animals and humans need the right types and amounts of nutrition. To be able to identify human and animal skeletal systems and muscular systems To know these provide support, protection and movement.

DT – Food and Nutrition

To use their knowledge of nutrition and seasonality to create a nutritious savoury meal.

Famous Scientist - Louis Pasteur

To use their knowledge of pasteurisation and how foods are processed and manufactured to ensure they are safe for human consumption



Light Autumn 1

To understand what light is and its importance. To identify sources of light (man-made and natural).

To know how light moves and how it can be reflected.

To understand how the eye detects light. Use their knowledge of light to create suitable eye wear.

Forces and Magnets Summer 2

Understand how things move on different surfaces and the forces acting on them. Understand the properties of magnets Use the knowledge of magnets and materials to identify magnetic materials.

DT Pneumatics

To use their knowledge of forces and pneumatics to create a moving figure. History of Pneumatics German physicist Otto James Watt Uses of Pneumatics DT vocabulary Tools required for a simple pneumatic





Electricity Autumn term

To understand that electricity is an energy and identify everyday appliances that use it To be able to construct simple circuits and know the electrical components but not their symbols To use their knowledge of circuits and electricity to create a circuit with a switch and a light which serves a purpose Famous Scientist - Alessandro Volta Physicist

Discovered the battery!

DT - Electrical systems – simple circuits and switches

Pose the children a variety of design criteria which enables them to use and apply their understanding of circuits to design and make a Christmas decoration.

Sound Summer 1

To understand how sounds are made Know that vibrations from sounds travel through a medium to our ear. To understand pitch and volume how this affects

sound To understand how the volume of a sound is

affected by distance.

Famous Scientist: Marin Mersenne Robert Boyle

Earth and Space Autumn 2

Understand the movement of the Earth in relation to the sun and the other planets. Explain the movement of the Moon relative to the Earth

Know why the Earth's rotation causes night and day

Explain that the Sun, Moon and Earth are spherical bodies

To recognise the theories of black holes and relativity

Famous Scientist - Stephen Hawking Brian Cox - Guion 'Guy' Bluford (first African American in Space)

Forces Summer term

Know why unsupported objects fall towards earth because of the force of Gravity Identify the effects of air resistance, water resistance and friction Recognise that some mechanisms can allow a smaller force to have a greater effect.

DT - Mechanical systems – Pulleys and gears

Pose the children a variety of design criteria which enables them to use and apply their understanding of forces and mechanical systems to design and make a moving object.

6 simple machines identified by science and DT

Pulley rotations Gear ratios Reversing switches Annotated diagram Exploded diagram



Light Spring 2 To know how light travels To explain how light allows us to see To explain how shadows are formed

Famous Scientist: Thomas Edison

STEM Critical Thinking

Electricity Summer 2

To understand how the voltage of cells affects the brightness of a lamp and the volume of a buzzer.

To be able to compare and give reasons for how different electrical components function Use recognised symbols to represent electrical circuits in a diagram

Year 5



Physics Harrow Gate Primary Academy

Chemistry at Harrow Gate Primary Academy





Harrow Gate Primary Academy Design and Technology Big Ideas



Design and Technology at Harrow Gate Primary Academy



Design and Technology at Harrow Gate Primary Academy

