

Year 5
Autumn Term
What will we learn this term?

English

This project teaches children about the history of ancient China, focusing primarily on the Shang Dynasty, and explores the lasting legacy of the first five Chinese dynasties, some of which can still be seen in the world today.

Narrative Poems – using figurative language

Biographies – using relative clauses

Stories from other cultures – write a story with a science fiction element – use a variety of verb forms

Maths

Numbers to 1 000 000

In this chapter, pupils will be looking at numbers and their place value to 1 000 000.

Calculation Addition and Subtraction

This chapter covers addition and subtraction. The chapter starts off with simple addition before moving on to addition where renaming is required. Subtraction is also covered in a similar way where simple subtraction is mastered before moving to subtraction where renaming is required.

Multiplication and Division

In this unit, pupils are multiplying and dividing 3- and 4-digit numbers by single- and double-digit numbers. The unit begins by finding and defining multiples and factors and common factors. Pupils begin to work with prime numbers and determine what makes a number prime or composite. After this, they work with square and cube numbers before moving on to multiplying by 10, 100 and 1000.

Word Problems

In this chapter, pupils are solving word problems that involve multiple steps and a variety of operations. Pupils begin the unit by simply choosing the correct operation before moving onto representing the key information using bar models. Applying the strategies learned in previous units is key in solving the challenges.

Graphs

In this chapter, pupils read and interpret information in tables and line graphs.

Science

Earth and Space

This project teaches children about our Solar System and its spherical celestial bodies. They describe the movements of the Earth and the other planets relative to the Sun, the Moon relative to Earth, and the Earth's rotation to explain day and night.

Forces and Mechanisms

This project teaches children about the forces of gravity, air resistance, water resistance and friction, with children exploring their effects. They learn about mechanisms, their uses and how they allow a smaller effort to have a greater effect.

Computing

Systems and Searches

Learners develop their understanding of computer systems and how information is transferred between systems and devices. Learners consider small-scale systems as well as large-scale systems. They explain the input, output, and process aspects of a variety of different real-world systems. Learners discover how information is found on the World Wide Web, through learning how search engines work (including how they select and rank results) and what influences searching, and through comparing different search engines.

Creating Media – Video Productions

Learners will learn how to create short videos by working in pairs or groups. As they progress through this unit, they will be exposed to topic-based language and develop the skills of capturing, editing, and manipulating video. Learners are guided with step-by-step support to take their idea from conception to completion. At the conclusion of the unit, learners have the opportunity to reflect on and assess their progress in creating a video.

History

Dynamic Dynasties

This project teaches children about the history of ancient China, focusing primarily on the Shang Dynasty, and explores the lasting legacy of the first five Chinese dynasties, some of which can still be seen in the world today.

Geography

Investigating our World

This essential skills and knowledge project teaches children about locating map features using a range of methods. They learn about the Prime Meridian, Greenwich Mean Time (GMT), and worldwide time zones and study interconnected climate zones, vegetation belts and biomes. Children learn about human geography and capital cities worldwide before looking at the UK motorway network and settlements. They carry out an enquiry to identify local settlement types.

Art

Tints, Tones and Shades

This project teaches children about colour theory by studying the colour wheel and exploring mixing tints, shades and tones. They learn about significant landscape artworks and features of landscapes before using this knowledge to create landscape paintings.

Taotie

This project teaches children about the significance and art of the taotie motif, including ancient and contemporary casting methods.

Design Technology

Moving Mechanisms

This project teaches children about pneumatic systems. They experiment with pneumatics before designing, making and evaluating a pneumatic machine that performs a useful function.

PE

Swimming - Wednesday

RE

Caring for others, animals and the environment

What is the difference between a wedding and marriage? How does a wedding relate to the couple's marriage? [How does a Humanist, Hindu or Sikh wedding encourage the couple to care for one another?](#)

How can marriage create an environment for caring? How does a Muslim wedding encourage the couple to care for each other?

How can marriage create an environment for caring? How can promises made at a Christian wedding encourage the couple to care for one another?

Sharing and being generous Why do we give, as well as receive? What can be given that does not have monetary value? What do Christians teach about sharing with others? How do Sikhs show generosity? How do religious and non-religious people show generosity?

Being loyal and steadfast How can Christians show commitment to their faith? What sort of friend are you? What are the boundaries of friendship? How can people show their commitment to others and God? How do members of the Sikh faith show their commitment?

Being hopeful and Visionary

What do I hope for?

What do Christians hope for the future? Where does their hope lie?

How do Muslims describe their ideal world? What do they do to help to bring this about?

PSHE

Being me in my world

Includes understanding my own identity and how I fit well in the class, school and global community. Jigsaw Charter established.

Celebrating Differences

Includes anti-bullying (cyber and homophobic bullying included) and understanding

Music

The lesson has 3 parts: Listen and Appraise / Musical Activities using glocks / Perform and Share. The children will be listening to: Rock Anthems and Jazz, Improvisation and Swing