

Survivors

Y5 Autumn 1

Science

Forces

Explain that unsupported objects fall towards the Earth because of the force of gravity acting between the Earth and the falling object

Identify the effects of air resistance, water resistance and friction, the act between moving surfaces

Explore the effects of air resistance by observing how different objects such as parachutes and sycamore seeds fall

Explore the effects of friction on movement and find out how it slows or stops moving objects

Find out how scientists for example Galileo Galilei and Isaac Newton helped to develop the theory of gravitation

Design Technology

Shelters

Research existing products.

Develop a simple design specification.

Generate, develop and model innovative ideas, through discussion, prototypes and annotated sketches.

Formulate a clear plan for the making process.

Select from and use appropriate tools to accurately measure.

Mark out, cut, shape and join construction materials to make frameworks.

Use finishing and decorative techniques suitable for the product they are designing and making.

PSHE

Mindfulness

First Aid Training

Common injuries including head injuries

Geography

All around the World

Pupils will have an extended knowledge of places and features on the World Map.

Identify where in the world you are.

Find the exact location of a place on Earth

Give exact locational instructions to specific places

To know how a GPS works.

Identify different time zones between the UK and Australia

Identify countries that celebrate the New Year at different times.

Identify how Father Christmas delivers for 24 hours.

Define how climate is different to weather.

Explain why some plants and animals never exist in the same place.

Explain detailed locational instructions to be rescued anywhere in the world.

Art

Painting

Create different effects by using a variety of tools and techniques such as dots, scratches and splashes, and applying paint in layers.

Create a colour palette using acrylic paint, demonstrating mixing techniques.

Use studies from close observation to help plan and realise paintings, using thumbnail studies and paint techniques to represent action, interaction or the 'impression' of a scene.

Show the effect of light and colour, texture and tone on natural and man-made objects.

Computing

Word Processing

Know what a word processing tool is for

Add and edit images to a word document

Know how to use word wrap with images and text

Change the look of text within a document

Add features to a document to enhance its look and usability

Use tables to present information

Become familiar with the use of templates

Consider page layout including headings and columns

Music

Getting Loopy

Understand how loops can be used to structure a piece of music.

RE

Hinduism

How do Hindus make sense of their world? Why is light important?

Describe various forms of worship that happen in the Hindu Temple and at home

Identify key Hindu symbols and their meaning eg Aum, Swastika

Outline some of the stories of Vishnu, Rama and Sita

Explain how the stories of Vishnu, Rama and Sita are significant for most Hindus

Describe how some Hindus may celebrate Diwali and Holi

To suggest why some Hindus may celebrate Diwali and Holi

French

French Festivals

Family & Friends

Find out about major French festivals

Describe family and friends

Numbers 1 - 100 games and activities

Space

Y5 Autumn 2

Science

Earth & Space

Describe the movement of the Earth, and other planets, relative to the Sun in the solar system

Describe the movement of the Moon relative to the Earth

Describe the Sun, Earth and Moon as approximately spherical bodies

Use the idea of the Earth's rotation to explain day and night and the apparent movement of the Sun across the sky

Learn that the Sun is a star at the centre of our solar system and that it has eight planets: Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus and Neptune (Pluto was reclassified as a dwarf planet in 2006)

Understand that a moon is a celestial body that orbits a planet (Earth has one moon; Jupiter has four large moons and numerous smaller ones)

History

History of the 'Space Race'

Compare timelines of scientific development in 2 different countries relating to the 'Space Race'

Significant figures: Katherine Johnstone

PSHE

NSPCC Share Aware

RE

Christianity

How do people use sources of authority to determine beliefs?

Explain using key texts, (eg parables, miracles, teaching) the Christian idea of the 'Kingdom of God' and how Christians seek to live to advance the Kingdom on earth.

Example key texts: Beatitudes; The Lord's Prayer; Jesus' Temptations; Parables of the Kingdom.

French

Time

Describing the Planets

Listen to and respond to time statements on the hour and half past the hour.

Say what time it is using half past e.g. Il est deux heures et demie.

Name the planets in French and describe the planets using colour and size adjectives.

I know the size adjective come before the noun.

Art

Painting

Create different effects by using a variety of tools and techniques such as dots, scratches and splashes, and applying paint in layers.

Create a colour palette using acrylic paint, demonstrating mixing techniques.

Use studies from close observation to help plan and realise paintings, using thumbnail studies and paint techniques

Art

Printing

Design and create printing blocks inspired by the natural and man-made environment and its contents e.g. patterns in flowers, curtains, wallpaper, space imagery.

Explore repeating patterns using rotation, symmetry and tessellation of positive and negative print blocks.

Continue to explore pattern, line, colour, shape and texture in multi-layered block printing.

Create repeated patterns with precision.

Explore relief printing by cutting/etching/tearing into different surfaces including corrugated cardboard, mount board, erasers and foil.

Continue to explore pattern, line, colour, shape and texture through relief printing.

Computing

Databases

Learn how to search for information in a database

Contribute to a class database

Create a database around a chosen topic

Concept Maps

Understand the need for visual representation when generating and discussing complex ideas

Understand use of a concept map and associated vocabulary

Create a concept map

Understand how a concept map can be used to retell stories and information

Create a collaborative concept map and present it to an audience

Raiders or Traders?

Y5 Spring 1

History

Anglo-Saxon Britain

Pupils will understand how Britain became under threat after the Romans left and why tribes wanted to settle in Britain. They will understand the struggles for control and how Anglo Saxon Britain was converted to Christianity.

Identify who were the Anglo-Saxon invaders.

Explain why the Anglo-Saxons wanted to settle in Britain.

Identify characteristics of an Anglo-Saxon Village.

Explain how Anglo-Saxon Britain was ruled.

Explain how the Anglo-Saxons find out about Christianity

Identify and explain what was special Sutton Hoo.

Identify the discoveries from Sutton Hoo that tells us about Anglo-Saxon Britain

Science

Materials

Compare and group together everyday materials on the basis of their properties, including their hardness, solubility, transparency, conductivity (electrical and thermal), and response to magnets

Know that some materials will dissolve in liquid to form a solution, and describe how to recover a substance from a solution

Use knowledge of solids, liquids and gases to decide how mixtures might be separated, including through filtering, sieving and evaporating

Give reasons, based on evidence from comparative and fair tests, for the particular uses of everyday materials, including metals, wood and plastic

Demonstrate that dissolving, mixing and changes of state are reversible changes

RE

Islam

How can other people's beliefs inspire our lives?

Understand why the Qur'an is important to many Muslims.

Identify and understand that Muslims believe the Prophets who came before Muhammad (pbuh) all taught the same message and explain how Muslims believe that Muhammad (pbuh) is the last and final prophet.

Understand almost all Muslims believe that to have 'inner peace with God' humans must follow and submit to Allah's guidance and will.

Describe how many Muslim worship shows devo-

French

Clothing

Revision of body / face & appearances

Know body and face vocabulary from Y4.

Recognise and say nouns for different clothing items and accessories.

Describe clothing using size and colour adjec-

DT

Anglo-Saxon Stew

Use appropriate equipment and utensils to prepare and combine food (Prepare root vegetables and boil to create a stew)

Know about seasonality and the availability of ingredients.

Know how to identify nutritional difference between different products and recipes.

Understand what cross contamination means.

Know that certain meats come from specific animals

Music

Performance Poetry

Understand how the voice if a powerful tool for musical and poetic expression.

Write and perform own raps.

PSHE—KIVA Cyberbullying

Computing

Coding

Begin to simplify code

Create a playable game

Understand what a simulation is

Program a simulation using 2Code

Use decomposition and abstraction

Understand how to use friction and functions in code, about different variable types and their uses,

History

Anglo-Saxons vs Vikings

Pupils will understand that there was a struggle for power in England by the Anglo-Saxons, the Vikings and eventually the Norman up to 1066. They will study significant figures and their impact and use chronological skills and historical enquiry to inform their knowledge and understanding about England during this time.

Identify and explain key characteristics about 8th Century Britain.

Understand the significance of the Lindisfarne Raid

Explain the key events of why King Alfred was great.

Identify whether England was unified under Athelstan?

Explain the similarities and differences between living in Anglo-Saxon England & Danelaw

Identify who had claim to the throne in 1066.

DT

Cams Toys

know that mechanical systems have an input and an output.

know how cams, pulleys or gears can be used to produce different types of movement.

know how to use a glue gun, hacksaw, sand paper safely and effectively.

know how to measure components (axle, lever) to the nearest mm.

Know a range of materials which would be best suited to my product, taking into account their characteristics, properties and aesthetic qualities

French

Travelling in my town: Transport and Directions

Describe different types of transport

Say how they get to school

Follow and give basic directions. • Know points on a compass.

Raiders or Traders?

Y5 Spring 2

Science

Forces

Effects on forces when using Levers, Pulleys & Gears

Computing

On-line Safety

Recognise how to be responsible digital citizens and the impact it has on others

Gain a greater understanding of the impact that sharing digital content can have.

Review sources of support when using technology and children's responsibility to one another in their online behaviour. To know how to maintain secure passwords.

Understand the advantages, disadvantages, permissions and purposes of altering an image digitally and the reasons for this.

Be aware of appropriate and inappropriate text, photographs and videos and the impact of sharing these online. Learn about how to reference sources in their work.

Search the Internet with a consideration for the reliability of the results of sources to check validity and understand the impact of incorrect information. To ensure reliability through using different methods of communication

3D Modelling

To design content by drawing and manipulating 3D shapes.

To know how to use 3D modelling software

To know how to draw 3D shapes.

To know how to add detail to 3D drawings.

To know how to add and manipulate 3D models.

RE

Cross religious

How have expressions of belief influenced art and music?

Describe what people can learn from Jesus' baptism story about how Christians view the different roles of God.

Describe the roles of the Father, the Son and Holy Spirit and how the Holy Spirit is involved in believers' and infant baptism. •• To be able to describe 3 examples where the Holy Spirit is expressed in symbolic form in art.

To make links with the Easter story texts Understand that many Christians believe that the God made the world.

Identify theories of evolution which are related to the origin of the world.

To compare and contrast poetic language in the Genesis accounts of creation with accounts of evolution.

To recognise some of the beliefs about the beginning of the world that many Christians believe.

To understand that a Pilgrimage is a sacred journey undertaken for spiritual purposes.

Explore and investigate the places pilgrims visit and the reasons why. To understand how a journey/ pilgrimage affects lives and a relationship with God.

To investigate and explore why particular journeys (not called pilgrimage) might have a special significance for us

Music

'Music from Around the World'

Sing a 3 part round and maintain own part.

Compose a simple melody using the pentatonic scale.

Identify key stylistic features of music from around the world.

History

Pupils will know how Macclesfield became the Silk town and how Langley was linked to the Silk Industry. They will explore how the locality changed over time using maps and records.

Identify and explain what chronology means and how it is measured.

Understand key events which has affected Macclesfield in the last 900 years/

Explain why Macclesfield here and how it has changed over the years.

Understand what Macclesfield is famous for and why it is called The Silk Town.

Explain how the Silk Industry impacted on the lives of people.

Identify and explain key features of Sutton & Langley that have changed over time.

Understand what photographs are used for and what they tell us about the past

Geography

Pupils will be able to compare and contrast their locality with other places in the UK.

Explain where pupils live and how it has changed over time.

Identify whether the changes over time have has positive or negative impacts

Explain the features of a town and how Macclesfield became a town?

Identify how Macclesfield became the place it is today.

Identify key features of where pupils live?

Understand how to record where each pupil lives.

Identify the differences and similarities about living in York, Macclesfield or Sutton.

Research about where I live has changed and what is good about it?

Raiders or Traders?

Y5 Summer 1

Science

Start Life Cycle Theme of Silk eggs/worms .(Living Things and their Habitats)

Understand the lifecycles of a variety of plants & animals

Know the terms sexual and asexual reproduction and know how plants, reproduce sexually (through pollination)

Describe the differences in the life cycles of a mammal, an amphibian, an insect and a bird

Describe the life processes of reproduction in some plants and animals

RE

Christianity/Free Choice

What do people believe about the origins of the world?

Understand that many Christians believe that the God made the world.

Identify theories of evolution which are related to the origin of the world.

Compare and contrast poetic language in the Genesis accounts of creation with accounts of evolution.

Art

Collage

Explore expression of self through collage.

Encourage the use of sketches, photos, newspapers, magazines and the collection of found or meaningful objects and the application of different techniques to create a collage.

Computing

Game Creator

Plan a game

Design and create the game environment.

Design and create the game quest.

Finish and share the game.

French

Mmmmm delicious!

Learn nouns for drinks, sandwiches and breakfast items.

Request different foods • Give food preferences with adjectives e.g. I like .. because it's...

PSHE

Drugs & alcohol education

Lesson 1—managing risks with medicines

Lesson 2— Managing risks—legal and illegal drug use

Music

Improvising Colours.

Sing a 3 part round and maintain own part.

Compose a simple melody using the pentatonic scale.

Identify key stylistic features of music from around the world.

Circle of Life

Y5 Summer 2

Science

Living Things and their Habitats

Describe the differences in the life cycles of a mammal, an amphibian, an insect and a bird

Describe the life processes of reproduction in some plants and animals

Raise questions about their local environment throughout the year

Find out about the work of naturalists and animal behaviourists, for example, David Attenborough and Jane Goodall

Find out about different types of reproduction, including sexual and asexual reproduction in plants and sexual reproduction in animals

Animals, including Humans

Describe the changes as humans develop to old age

Draw a timeline to indicate stages of growth and development in humans

Learn about the changes experienced in puberty

PSHE

RSE

Talking about puberty

Male and female changes

Puberty and hygiene

Computing

Spreadsheets

Use formulae to convert measurements of length and distance

Use the count tool to answer hypotheses about common letters in use

Use a spreadsheet to model a real-life problem

Use formulae to calculate area and perimeter of shapes

Create formulae that use text variables

Use a spreadsheet to help plan e.g. a

French

Sports & Hobbies

Say different sports.

Give opinions on sports

Describe what sports might be done in different weather.

Say what clothes are worn for different sports.

Art

Collage

(continued)

Select and use cutting tools and adhesives with care to achieve a specific outcome.

Select and use found materials with art media and adhesives, assembling them carefully to represent an idea.

Design and create a collaborative piece of artwork

Music

Newsbeat

Construct own radio broadcast around a news story.

Understand how music reinforces key messages within broadcast media.

RE

Cross Religious

Are journeys important? Is life a journey?

Understand that a Pilgrimage is a sacred journey undertaken for spiritual purposes.

Explore and investigate the places pilgrims visit and the reasons why.

Understand how a journey/pilgrimage affects lives and a relationship with God.

Investigate and explore why particular journeys (not called pilgrimage) might have a special significance for us.