

# Year 5 Spring Term Curriculum Map

## Maths

- Multiplication and Division:** Written methods for multiplication and division. Multiplying Fractions by integers
- Fractions:** Finding fractions of amounts and quantities: tenths, hundredths and thousandths.
- Decimals and Percentages:** decimals and fraction equivalents, comparing and ordering decimals.
- Perimeter:** finding perimeters, areas and estimating areas of shapes.
- Statistics:** Drawing line graphs, reading and interpreting tables.
- Shape:** Understanding and using degrees, measuring and estimating angles.

## History

- Raiders and Invaders: Vikings and Anglo Saxons- Sticky Knowledge:**
- To know when and where the Vikings came from and say why they raided Britain.
  - To know and compare the significance of some Anglo-Saxon kings during the Viking period.
  - To know key aspects of Viking life.
  - To know how the last Anglo-Saxon kings shaped Britain.
  - To know how the Anglo-Saxon and Viking era ended in Britain and how the Norman era began after The Battle of Hastings in 1066

## Computing – Programming A: Selection in physical computing

- Crumble controls / command blocks
- If...then...else loops and how they work
- Repetition needs carefully programming- repeat x times / infinite and the differences between

## Data and Information: Flat-file databases

- Databases can be paper-based or computer-based.
- A database consists of records, each record containing different fields of data.
- Records can be grouped or sorted according to the information in a field.
- Questions can be asked to sort and search the database.

## P.S.H.E

### What makes up a person's identity? Sticky Knowledge:

- I know how to show respect to others identity, i.e ethnicity, family, faith, culture, gender, hobbies, likes and dislikes.
- I know how to challenge stereotypes

### P.S.H.E – How we all grow and change? -Sticky Knowledge:

- To know how bodies change during puberty and how puberty can affect emotions and feelings.
- To know how personal hygiene routines change during puberty.
- To know how to ask for advice and support about growing and changing during puberty.

## English

Please find below the core texts we will be using and the text type we will be writing.

- The Last Bear- Internal Monologue, Diary/Flashback
- Hidden Figures- Balanced Argument, Persuasive Letter
- The Sleeper and the Spindle- Character description/ Narrative, poems.

## Art and Design

**Artist: Peter Thorpe**

**Outcome: Creating effects in artwork**

**Sticky knowledge:**

- to know facts about the artist, Peter Thorpe
- know how to create different paint effects to make a background using a range of techniques such as layering and splattering.
- Know how to use colours effectively for impact.
- To know how to use a mixture of media for impact and effect.
- To know how to use a range of techniques with pastels and pencils such as shading and blending.

## Music: Unit three: Rhythm

- I can use a variety of timbres and techniques when creating and playing music
- I can use and respond to basic musical symbols including standard notation
- I can create and play contrasting rhythms within a range of time signatures

## Unit four: Pitch

- I can begin to create music which demonstrates an understanding of basic structure and an awareness of contrasting pitches and melodies.
- I can play from standard pitch notation in the treble clef.
- I can begin to use a variety of musical devices and techniques when creating and making music

## Religious Education

### Why do Christians believe Jesus was The Messiah? Sticky Knowledge:

- Show how Christians put their beliefs about Jesus' Incarnation into practice in different ways in celebrating Christmas
- Comment on how the idea that Jesus is the Messiah makes sense in the wider story of the Bible

### Why is The Torah so important to Jewish people? Sticky Knowledge:

- Make clear connections between Jewish commandments and how Jews live (e.g. in relation to kosher laws)
- Give evidence and examples to show how Jewish people put their beliefs into practice in different ways (e.g. some differences between Orthodox and Progressive Jewish practice)

## P.E.

- Gymnastics
- Invasion Games
- Net and Wall
- Dance

## Science

### Earth and Space - Sticky Knowledge:

- The Sun is a star. It is at the centre of our solar system.
- There are 8 planets (can choose to name them, but not essential). These travel around the Sun in fixed orbits.
- Earth takes 365¼ days to complete its orbit around the Sun.
- The Earth rotates (spins) on its axis every 24 hours.
- As Earth rotates half faces the Sun (day) and half is facing away from the Sun (night).
- As the Earth rotates, the Sun appears to move across the sky.
- The Moon orbits the Earth. It takes about 28 days to complete its orbit.
- The Sun, Earth and Moon are approximately spherical.

### Forces - Sticky Knowledge:

- A force causes an object to start moving, stop moving, speed up, slow down or change direction.
- Gravity is a force that acts at a distance, pulling everything towards the centre of earth.
- Air resistance, water resistance and friction are contact forces that act between moving surfaces.
- The object may be moving through the air or water, or the air and water may be moving over a stationary object.
- A mechanism is a device that allows a small force to be increased to a larger force but it requires a greater movement.
- Pulleys, levers and gears are all mechanisms, also known as simple machines.

## Geography

### Should I climb Mount Everest? Sticky Knowledge

- To locate the Himalayas on a world map and Mount Everest
- Locate a few physical and human characteristics of Mt Everest
- To understand the weather conditions and how these can change at different points of the mountain.
- To be able to use information about changing weather patterns to inform decisions about whether climbing Mount Everest is safe.
- To know the risks to the human body when faced with freezing weather conditions
- To know how mountaineers ascend and descend Mount Everest
- To understand why Mount Everest is divided into different stages both when ascending and descending the mountain and that this journey can take up to two months to complete.
- To know how the mountain brings tourism to Kathmandu and what impact this has on people locally.

## Design and Technology

### Mechanisms and Systems- Moon Buggies

#### Sticky Knowledge:

- To know how to strengthen, stiffen and reinforce more complex structures – right angled joints, triangular stiffeners
- To know how to use pulley systems to drive and control axles
- To know how to use electrical systems in their products [for example, series circuits incorporating switches, bulbs, buzzers and/or motors]
- To know how to use a hacksaw safely