



# Year 5 - Learning Journey

## Spring 1 - 2020

### Maths

We will be learning through the school's maths scheme.



#### Key learning this half term:

- **Rounding** numbers up to, **1 000 000, (one million)**.
- Recognise and use **prime numbers, square(2) and cube (3) numbers** and use the correct **notations**.
- Add and subtract **fractions** with **denominator** of the same value and of **multiples** of the same number.
- Read, write, order and compare numbers up to three **decimal places**.
- **Measure** and **calculate** the **perimeter** of **shapes** in **centimeters (cm)** and **meters (m)**.
- Draw shapes using given **dimensions** and **angles**.
- **Reflect** or **translate** shapes on a grid
- Successfully use **Roman Numerals**.

### English - Writing

We will learn how to use and improve new and existing writing skills.



#### Key learning half this term:

- Develop **descriptive vocabulary** within our writing.
- Develop our ability to thoroughly **check, edit** and **up-level** our own writing.
- Explore our ability to write in different **styles** including:  
Fiction
- **Stories from other cultures.**
- **Poetry from other cultures.**
- **Stories with a historical setting.**
- Non Fiction
- **Persuasion.**
- **Debating.**
- **Formal letter writing.**



### English - Reading

We will be learning through the Destination Reader programme.



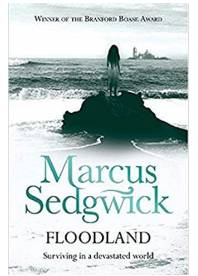
#### Key learning this half term:

- Making **inferences** and **justifying** predictions based on the class text.
- Making **connections** using **personal experience** and **knowledge** of other texts.

#### Focus Books this term:

'Floodland' by Marcus Sedgwick.

We will also be reading non fiction texts relevant to our Geography and History topics.



### Geography

'Asia - China



#### Key learning this half term:

- Use a world map to locate **Asia**, its **countries** and **capital cities** including **China**.
- Discuss the significance of **latitude** and **longitude**.
- Identify the key **human features** of **China**, its **capital city** and other **major cities**.
- Identify the **physical features** of **China**, including **climate** and its **biodiversity**.
- Identify the stages and features of **China's Yellow River** from the **source** to the **mouth**.
- Issues related to **flooding** of the **Yellow River** and understand how flooding affects **communities**.
- China's **economic activity** and **trade link**.

### History

'Shang Dynasty'



What connections and comparisons can be made between the Shang Dynasty and other ancient civilisation?

#### Key learning this half term:

- Learn about the **Shang Dynasty** of **China**.
- Explore the evidence surrounding the **Shang Kings**.
- Find out about **Shang royal burials**.
- Discuss what **ordinary life** was like for people during the **Shang Dynasty**.
- Learn about the **writing, Oracle Bones** and the **calendar** created during the **Shang Dynasty**.
- Discover why the **Shang Dynasty** ended.

### Science

'Properties and Changes in Materials'



#### Key learning this half term:

- **Compare** and **group materials** by **properties**. For example: **hardness, solubility, transparency**.
- **Dissolve** materials into a **liquid** to form a **solution**.
- Apply knowledge of **solids, liquids** and **gases** to **filter, sieve** and **evaporate** to **separate** mixed materials.
- Conduct **comparative** and **fair tests**.
- Use **evidence** to explain particular uses of **everyday materials**, including **metals, wood** and **plastic**.
- Demonstrate that **dissolving, mixing** and **changes of state** are **reversible changes**.
- Explain that some changes result in the formation of **new materials**, which can be **irreversible**.

## Computing

A Positive Human Future:  
Designing the Sustainable City of Tomorrow



### Key learning this half term:

- Participate in the **PA Raspberry Pi Competition 2020**. [www.paconsulting.com/events/raspberry-pi-competition-uk/](http://www.paconsulting.com/events/raspberry-pi-competition-uk/)
- Apply the **Raspberry Pi computer**, to create **innovative solutions to real-world challenges**.
- **Design technology** for the **sustainable city of tomorrow**.
- **Protection of habitats** while making the best use of **natural resources**.
- Simple, safe **travel without pollution**.
- **Sustainably-sourced food** with minimal waste.

### Online Safety - Cyber Pass

We will be taught online safety in order to participate safely in the online community including when sourcing images for our projects.

## PSHCE & RHE

'Dreams and Goals'



### Key learning this half term:

- Identify **dreams** and **goals** for '**when I grow up**'.
- Understand that **earning money** will play a role in helping to **achieve dreams** and **goals**.
- Identify a **job** I would like to do and understand my **motivation** and what I need to do to **achieve** this.
- Describe **dreams** and **goals** of children in a **different culture** to ours.
- Understand the importance of **communication** and learning from **other cultures** to **support** one another.
- **Support** others to **achieve** their **dreams** and **goals** both in **our community** and in **other communities**.

## Physical Education

Onyx Class - 'Exploring Dance Genres'  
Quartz Class - 'Volleyball'

### Key learning this half term:

Onyx Class - Dance Genres

- Learn **history** and **influence** of different **dance styles**.
- **Enhance technique** of core dance **movements**.
- **Improvise** dance to **music**.
- Perform **group** and **individual** dance **routines**
- Demonstrate good **form**, use of **levels** and **dynamics**.

PE Day - Wednesday

Quartz Class - Volleyball

- Develop understanding of **Volleyball rules**.
- Demonstrate the **set shot** and **pop serve**.
- Learn the **3/3 formation**.
- Participate in a **competitive game**.
- Demonstrate good **team work** and **positive attitude**.

PE Day - Friday

Please ensure that your child has a full PE kit in school each week for their PE lesson.

## Religious Education

'Sikhism'



### Key Question:

Are Sikh stories important today?



### Key learning this half term:

- Discuss the beliefs and **moral values** of **Sikhs**.
- Discover **stories of Sikhism** and discuss their relevance and importance to **modern culture** and **society**.
- Compare the **beliefs** and **moral values** of **Sikhs** to the **beliefs** and **moral values** of other religions.



## Art

'Telling Stories'



### Key skills:

- Develop inspiration from key artists: Hans **Holbien**, Joseph **Cornell**, Mark **Dion**, Louise **Nevelson**.
- **Express** an object in varied **drawing styles**.
- **Translate** drawings into simple **3D assemblage**.
- Arrange objects to **draw** or **photograph**.
- Create a **3D collage**.

## Mandarin

普通话



### Key learning:

- Review **money**.
- The festival of **Chinese New Year** and **celebratory foods**.
- **Ask** and **answer questions**.
- Show **understanding** through **response**.
- **Express** and **respond** to **opinions**.
- Engage in shopping conversations.
- **Zodiac** paintings.

## Home Learning

Your home learning project is due in school by:  
Friday 31st January

### Use the following websites to practise your maths and spelling:

- [www.trockstars.com](http://www.trockstars.com)
- [www.login.mathletics.com](http://www.login.mathletics.com)
- [www.uk.spellodrome.com](http://www.uk.spellodrome.com)
- [www.spag.com](http://www.spag.com)

### Complete one of the following projects:

- Create a 3D model of an artefact from the Shang Dynasty. Visit the free British Museum galleries or explore their online archive for inspiration. [www.britishmuseum.org/search](http://www.britishmuseum.org/search)
- Create 3D model which displays human features and/or geographical features of China.

Responsibility

Independence

Initiative

Generosity

Curiosity

Perseverance

Optimism

Social Intelligence

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