

Boarshaw Primary School - Medium Term Plan - Year 6 – Spring 2

Learning Challenge –

Why can we see the stars at night?

As scientist we will be answering these questions:

- LC1 – What is a light source?
- LC2 – How does light travel?
- LC3 – How does the eye work?
- LC4 – What happens when light hits a surface?
- LC5 – How do we see colour??

Key Knowledge:

- Know how light travels
- Know and demonstrate how we see objects
- Know why shadows have the same shape as the object that casts them
- Know how simple optical instruments work e.g. periscope, telescope, binoculars, mirror

As Artists:

We can improve our mastery of art and design techniques.

Key Knowledge:

- Create abstract drawings using repeated patterns
- Choose one of the pattern designs to create a tile and print from it.
- Mix and apply paint to match an original piece of work
- Learn about a piece of work by Edward Hopper and answer questions about some elements of art including technique, form, shape and colour.

As Computer Programmers:

We can explain what a text adventure is and create our own adventure.

Key Knowledge:

- Map out a story-based text adventure.
- Design an adventure game and split into appropriate sections.
- Create their own text-based adventure based upon a map.
- Use coding concepts of functions, two-way selection and repetition to code their game.

Learning Challenge – The Second World War

Our half term work has a History Focus

WOW Moment! Could you have been a code breaker at Bletchley Park?

As Historians we will be answering these questions:

- LC 1 – What were the key events of the Second World War?
- LC 2 – Where did WW2 take place and who were the key figures??
- LC 3 – Why did the Second World War break begin?
- LC 4 – Why were certain parts of the United Kingdom bombed during the war?
- LC 5 – What was an air raid and how did the country prepare for them?
- LC 6 – What was The Blitz?
- LC 7 – Why were children from certain areas evacuated from their homes?
- LC8 – How was propaganda used by the government during the war?

As Mathematicians:

Develop our knowledge of **converting units of measure:**

- Read, write and recognise metric measures for length, mass and capacity.
- Develop skills of estimation in context and decide when it is appropriate to use different units of measure.
- Use skills of multiplying and dividing by 10, 100 and 1000 when converting between units of length, mass and capacity.
- Use and apply conversion skills to solve measurement problems in context.
- Know that 5 miles is approximately equal to 8km and use this fact for conversion.

Develop our knowledge of **perimeter, area and volume:**

- Find and draw rectilinear shapes that have the same area, using knowledge of factors.
- Calculate area and perimeter of rectilinear shapes using a formula.
- Find the area of a triangle by counting squares and by applying a formula.
- Use knowledge of finding the area of a rectangle to find the area of a parallelogram.
- Find the volume of cuboids by counting cubes and by applying a formula.

Develop our knowledge of **ratio:**

- Understand that ratio shows the relationship between two values.
- Use objects and diagrams to compare ratios and fractions.
- Calculate ratios and be able to find a part and a whole.
- Use and calculate scale factors

As Theologians:

We can think about what religions say to us when life gets hard.

Key Knowledge:

- Outline Christian, Hindu and non-religious beliefs about life and death and identify some similarities and differences.
- Explain reasons why Christians and Humanists have different ideas about an afterlife.
 - Express ideas about how religion can help believers when times are hard.

As Athletes:

We can play competitive games of basketball and work as a team to develop teamwork skills and to solve problems.

Key Knowledge:

- Improve our throwing skills in order to aim with accuracy.
- Demonstrate improvement.
- Develop communication skills and be a valued member of a team.

As Language Specialists:

We will be able to talk about the planets and ask and answer questions.

Key Knowledge:

- Name the planets of the Solar System
- Know the names for different colours and ask what colour something is.
- Ask questions using superlatives
- Hold a two-way conversation about the planets, discussing size and colour.

As Musicians:

We will develop our knowledge of the song You've got a friend by Carole King

Key Knowledge:

- Learn the lyrics and identify the instruments that can be heard.
- Describe the structure of a song.
- Talk about the musical dimensions used in a song.
- Contribute to a performance by singing, playing an instrument or improvising.
- Listen to other songs that support the theme.

As Citizens:

We will develop our understanding of rights and responsibilities.

Key Knowledge:

- Understand what a stereotype is and how they can negatively influence behaviours and attitudes towards others.
- Discuss strategies for challenging stereotypes.
- Understand how to assess the reliability of online information and how to make safe, reliable choices.
- Understand benefits of saving money and ways that is can be done.
- Identify the kind of job they may like to do in the future.
- Recognise the reasons for rules and laws and the consequences of not adhering to them