

Boarshaw Primary School - Medium Term Plan - Year 6 – Autumn 1

As Scientists we can:

Learning Challenge – Why is the heart the most important pump we own?

As scientist we will be answering these questions:

LC1 – Why can having a defective heart be life-threatening?

LC2 – What is the relationships between our pulse and exercise?

LC3 – What happens to the Oxygen we breathe and could we describe our arteries and capillaries as the body's motorway system?

Key Knowledge:

- Identify and name the main parts of the human circulatory system.
- Know the function of the heart, blood vessels and blood.
- Know the impact of diet, exercise, drugs and lifestyle on health.
- Know the ways in which nutrients and water are transported in animals, including humans.

As Language Specialists we can:

We will be able to converse with others about everyday life.

Key Knowledge:

- Recall phrases to talk about yourself and your feelings.
- Give simple descriptions about yourself
- Remember and use numbers to 60
- Understand o'clock time phrases
- Talk about your daily routine

As Artists:

We can create a variety of still life pieces influenced by different artists

Key Knowledge:

- Improve mastery of drawing techniques using the medium of pencil and charcoal.
- Incorporate paint into drawings.

As Computer Programmers:

We can explain what coding is use the skills we have developed to create our own program.

- **Key Knowledge:** • Know how to repeat blocks of code.
- Create an 'if' statement.
- Create a variable in a program.
- Create a program that controls or stimulates a physical system

Learning Challenge – What part did Manchester play in the Industrial Revolution?

Our half term work has a History Focus

As Historians we will be answering these questions:

LC 1 - Why was the Industrial Revolution important to Britain?

LC 2- What is the significance of cotton spinning moving from being a hand craft, to being mechanised?

LC 3 - What is the significance of the steam engine during the Industrial Revolution?

LC 4 - Why was coal and iron so important for the Industrial Revolution?

LC 5 - What was the impact that canals had on trade and transport in Britain?

LC 6 - What were the first train lines to be built in Britain?

As Mathematicians we can:

Develop our knowledge of place value by,

- Reading and writing numbers to ten million
- Comparing and ordering any number
- Rounding any number to 10, 100 and 1000
- Understanding negative numbers

Develop our understanding of addition, subtraction, multiplication and division by.

- Add and subtract numbers with more than 4 digits and use inverse operations.
- Solve multi-step addition and subtraction problems.
- Multiply up to a 4-digit number by a 2-digit number.
- Divide with remainders using mental methods, short division and long division.
- Identify factors and common factors, prime and square and cube numbers.
- Understand the order of operations.
- Reason about known facts.

As Theologians we can:

We can think about the following key question: Is it better to express your religion in arts and architecture or in charity and generosity?

Key Knowledge:

- Describe and make connections between examples of religious creativity.
- Show understanding of the value of sacred buildings and art.
- Suggest reasons why some see generosity and charity as more important.
- Apply ideas about values and from scripture.

As Athletes:

We can understand the importance of keeping fit and identify activities that will help us stay fit and healthy. Understand the rules of football and develop skills to play the game.

Key Knowledge:

- Improve on own personal best.
- Identify ways to be a team member

As Design and Technologists we can:

Use research and develop design criteria to inform the design of innovative, functional, appealing products that are fit for purpose.

Evaluate ideas and products against their own design criteria.

Key Knowledge:

- Come up with a range of ideas after collecting information from different sources.
- Produce a detailed step-by-step plan.
- Explain how a product will appeal to a specific audience.
- Use a range of tools and equipment competently.
- Suggest alternative plans and explain the positive features and draw backs.

As Musicians we will:

We will listen to music around the theme of happiness and think about the question, 'What makes you happy?'

Key Knowledge:

- Listen to and appraise songs in different styles.
- Understand the interrelated dimensions of music.
- Use instruments to create an ensemble.
- Identify a rhythm and copy it back by clapping or using an instrument.

As Citizens:

We are able to identify different relationships that are important to us. We know about ways to form new relationships. We will learn more about what is important to us and how we feel about ourselves.

Key Knowledge:

- Understand what constitutes a positive healthy friendship.
- Identify strategies to resolve disputes and reconcile difficulties positively and safely.
- Recognise the importance of self-respect and how this can affect our thoughts and feelings of ourselves.
- Identify some of the skills that will help in our future careers e.g. teamwork, communication and negotiation.