



Barn Croft Primary School
Spring 1 2023-2024
Year 6 Curriculum Newsletter

Children are expected to read at home daily.
Practice on Times Tables Rockstars three times weekly.

Open Homework

Children can complete a piece of writing, research, art, project, comic etc. about any area of their learning this half term and bring it to school to share with their peers.

Maths

Multiplication and Division

Explain the effect on the product when scaling the factors by the same amount
Explain the effect on the quotient when scaling the dividend and divisor
Multiply a three-digit by a two-digit number
Accurately use the method of long multiplication to multiply up to 4 digit number by 2 digits (including regrouping)
Explain how to use accurately the methods of short and long division (with and without remainders)
Solve problems
Explain how to use accurately the method of long division with and without remainders
Use long division with decimal remainders (1 and 2 decimal place) and fraction remainders
Interpret and represent remainders from a range of division contexts
Identify and explain the relationship between divisors and quotients

Area, perimeter, position and direction

Explain how to calculate the area of a parallelogram and triangle
Explain why shapes can have the same perimeters but different areas and vice versa
Describe the relationship between scale factors, side lengths and perimeters of two shapes
Describe positions on the full coordinate grid (all four quadrants)
Draw and translate simple shapes on the coordinate plane and reflect them in the axes

This Term's Whole Class Text: Ice Trap & Shackleton's Journey

Ice Trap by M.P. Robertson and Meredith Hooper

"Ice Trap" is an exciting adventure story that takes readers on a journey to Antarctica. The book follows a young boy named Olaf, who embarks on a thrilling quest to find his missing father. Along the way, Olaf encounters various challenges and meets fascinating characters, including penguins and whales. With stunning illustrations, this book captures the beauty and harshness of the icy landscape, allowing readers to explore the wonders of Antarctica.

Shackleton's Journey by William Grill

"Shackleton's Journey" is a captivating non-fiction book that recounts the incredible story of Sir Ernest Shackleton's Antarctic expedition. Through detailed illustrations, readers learn about the challenges faced by Shackleton and his crew as they attempt to cross the frozen continent. This true tale of bravery, perseverance, and leadership showcases the hardships endured by the explorers, as well as the importance of teamwork and resilience in the face of adversity.

English

Children are learning to:

- write a diary entry
- describe a setting
- describe characters' personality, thoughts and feelings
- write a narrative
- build cohesion
- use prepositional phrases
- use precise vocabulary
- hyphenated nouns and adjectives

Reading

Our aims in reading are to:

- Retrieve information from the text
 - Make predictions
- Make comparison and connections
 - Summarize paragraphs
- Make inferences from the text
- To say whether a statement is true or false
- Choose words and phrases to enhance meaning

Science: Evolution and Inheritance

Your child will be learning to:

- Define and identify variation in organisms and recall that it is caused by inherited and environmental factors.
- Recall that living things produce offspring of the same kind but are not normally identical to their parents.
- Describe patterns of inheritance from parent to offspring in a given example or family tree.
- Describe what an adaptation is; it cannot be chosen and is usually inherited.
- Describe key characteristics that would help an organism to survive and explain how an adaptation helps the organism to survive.
- Explain how variation may affect survival within a population and recall what natural selection means.
- Recall what evolution is, identify differences between a living thing and its ancestor and describe key steps in the evolution of a species.
- Recall different types of evidence that can be used to explain evolution and describe methods that make scientists' results or conclusions more trustworthy.

Religious Education: Humanism

To explore what a worldview is.

To explore the ideas of humanist thinkers.

To compare the main humanist beliefs with that of others.

To consider scenarios and how humanists might respond to these.

PSHE/RHE: Stealing/ Worry

Children will: explain what consent means; recognize the importance of being honest and not stealing; explain why it is important to have a trusting relationship between friends and family and identify how making some choices can impact others' lives in a negative way.

We will also get to recognize our thoughts, feelings and emotions; identify how we can reduce our feeling of worry and explain how we can support others who feel worried.

Computing- Spreadsheets:

The aims in this unit are to:

- use a spreadsheet to investigate the probability of the results of throwing many dice.
- use a spreadsheet to calculate the discount and final prices in a sale. Create a formula to help work out the prices of items in the sale
- use a spreadsheet to plan how to spend pocket money and the effect of saving money.
- use a spreadsheet to plan a school charity day to maximise the money donated to charity.

History- Civil Rights

This unit supports pupils to understand a highly significant theme in history beyond 1066, but focuses on the civil rights movement in the United States during the 1950s and 60s. In doing so, it extends pupils historical study beyond the requirements of the national curriculum.

Design & Technology: Automata

By the end of this unit students will be able to:

- Mark, saw and cut out the components and supports of their toy with a varying degree of accuracy to the intended measurements.
- Follow health and safety rules, taking care with the equipment.
- Attempt a partial assembly of their toys using an exploded-diagram, following a teacher's demonstration.
- Develop a design idea with some descriptive notes.
- Explore different cam profiles and choose three for their follower toppers with an explanation of their choices.
- Create neat, decorated follower toppers with some accuracy.
- Measure and cut panels that fit with some inaccuracies to conceal the inner workings of the automata.
- Decorate and finish the automata to meet the design criteria and brief.
- Evaluate their finished product, making descriptive and reflective points on function and form.

French: In a French classroom

Pupils will learn:

- common classroom instructions and how to recognise the imperative mood through games
- to say what they have and the negative by including saying what they don't have.
- understand that adjectives change depending on the gender of the noun that they describe.

PE: Athletics

Y6 students are set challenges for distance and time that involve using different styles and combinations of running, jumping and throwing. As in all athletic activities, pupils think about how to achieve their greatest possible speed, distance or accuracy and learn how to persevere to achieve their personal best. They learn how to improve by identifying areas of strength as well as areas to develop. Pupils are also given opportunities to lead when officiating as well as observe and provide feedback to others.

Pupils will learn the following athletic activities: long distance running, short distance running, triple jump, discus and shot put.