



Barn Croft Primary School
Autumn 2 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.**

Science: Light and Reflection

Your child will be learning to:

- Compare sources of light and explain how the eye is protected from light.
- Describe how light travels and how we see luminous and non-luminous objects.
- Recall factors that affect the size of a shadow and describe how the distance between an object and the surface its shadow is cast on affects the size of the shadow.
- Use ray diagrams to explain why shadows change size and why the shape of a shadow matches the object that cast it.
- Recall what happens to light when it reaches a smooth mirror surface.
- Identify the incoming and reflected rays and describe the relationship between their angles.
- Use mirrors to make a working periscope and explain how a periscope works using ray diagrams.
- Recall a range of uses of mirrors and reflection and describe how a mirror reflects light in different situations.
- Explain how light is reflected using knowledge of light and reflection.

Maths

Calculate using knowledge of structures

- Identify structures within stories and use their knowledge of structures to create stories.
- Identify the missing part using their knowledge of part whole relationships and structures.
- Interpret and represent a part whole problem with three addends using a model.
- Create stories to correctly match structure presented in a model.
- Solve problems.
- Calculate the value of a missing part.
- Explain how adjusting both addends affects the sum.
- Explain how adjusting both addends affects the sum.
- Use the 'same sum' rule to balance equations.
- Solve addition and subtraction calculations mentally by using known facts and missing addends.
- Explain how adjusting both the minuend and subtrahend by the same amount affects the difference.
- Explain how increasing or decreasing the minuend affects the difference.
- Explain how increasing or decreasing the subtrahend affects the difference.
- Calculate the difference using the knowledge of an adjusted subtrahend.

Numbers up to 10,000,000

- Use representations to identify and explain patterns in powers of 10.
- Compose seven or eight-digit numbers using common intervals.
- Use knowledge of the composition of up to eight-digit numbers to solve problems.
- Explain how to read numbers with up to seven digits efficiently.
- Recognize and create numbers that contain place-holding zeros.
- Determine the value of digits in numbers up to tens of millions.
- Use knowledge of the composition of seven-digit numbers to solve problems.
- Add and subtract numbers with and without crossing the millions boundary.
- Estimate the value and position of numbers.
- Explain why and how we round.
- Explain how to round up to seven-digit numbers to any power of 10 in context.
- Add and subtract numbers with up to seven digits using column addition and subtraction and mental calculations.

Multiples of 1,000

- Explain how 10,000 and 100,000 can be composed.
- Read and write numbers up to 1,000,000.
- Identify and place the position of five-digit and six-digit multiples of one thousand numbers on an unlabeled number line.
- Count forwards and backwards in steps of powers of 10, from any multiple of 1,000.
- Explain that 10,000 is composed of 5,000s, 2,500s and 2,000s.
- Explain that 100,000 is composed of 50,000s, 25,000s and 20,000s.
- Read scales in graphing and measure context, by using their knowledge of the composition of 10,000 and 100,000.

This Term's Whole Class Text: The Hobbit

The Hobbit follows the main protagonist, Bilbo Baggins, a timid and unassuming hobbit, as he discovers an unexpected adventure awaiting him. Bilbo is swept away from his comfortable hobbit hole by the wizard Gandalf and a band of thirteen dwarves, led by the noble Thorin Oakenshield. Together, they embark on a perilous quest to reclaim their homeland from the fearsome dragon, Smaug.

Throughout their treacherous journey, Bilbo encounters various magical creatures and confronts his own fears and limitations. He discovers his inner strength and resourcefulness, proving himself to be a truly remarkable hero. Along the way, he forms unlikely alliances and faces unimaginable challenges that test his bravery and wit.

The story is rich in themes of courage, loyalty, and the power of perseverance. It encourages readers to believe in themselves and embrace the unknown, highlighting the value of friendship and unity in overcoming adversity.

English

Children are learning to:

- write a fiction story
- write a non-chronological report
- integrating dialogue and action
- building coherence in paragraphs
- subject/verb agreement
- identifying audience and purpose
- developing character through actions and speech
- synonyms and antonyms
- fronted adverbials

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

Religious Education: Islam

To understand the beliefs of the Islamic community.
To research and explore special Islamic places around the world.
To understand Islamic beliefs and see how these are put into action.

PSHE/RHE: Alcohol/Jealousy

Children will: explain some of the risks associated with alcohol (physical, social, and legal); describe how smoking can affect your immediate and future health and wellbeing; give reasons why someone might start and continue to drink alcohol; identify and use skills and strategies to resist any pressure to drink. We will also get to know about the emotion of jealousy and ways to cope with jealous feeling in life.

Computing- Coding:

- To design a playable game with a timer and a score.
 - To plan and use selection and variables.
- To understand how the launch command works.
- To use functions and understand why they are useful.
- To understand how functions are created and called.
- To use flowcharts to test and debug a program.
- To create a simulation of a room in which devices can be controlled.
- To understand the different options of generating user input in 2Code.
- To understand how user input can be used in a program.
- To understand how 2Code can be used to make a text-based adventure game.

Humanities- Geography: Local fieldwork

Why do geographers do fieldwork?

What tools do geographers use for fieldwork?

How do geographers collect and present data?

Can we design tools for fieldwork?

Conducting fieldwork!

Art: Make my voice heard

- Collect a good range of imagery, adding annotated notes and sketches.
- Make relevant comparisons between different styles of art.
- Use tools effectively to explore a range of effects.
- Respond to the meaning of a spirit animal through drawing.
- Generate symbols that reflect their likes and dislikes with little support.
- Create a tile that is full of pattern, symbols and colours that represents themselves.
- Discuss ideas to create light and dark through drawing techniques.
- Apply chiaroscuro to create light and form through a tonal drawing.
- Form their own opinions about what art is, justifying their ideas.

French: Shopping in France

- Correctly build and pronounce two-digit numbers that have been generated randomly.
- Recall vocabulary by matching the correct pictures to the appropriate words.
- Join in with a story, using gestures and key vocabulary.
- Correctly sort word-cards by gender and apply the appropriate article.
- Highlight a range of known and easily recognisable vocabulary in a text.

PE: Fitness

Pupils will take part in a range of activities that explore and develop different areas of their health and fitness. They will learn different components of fitness including speed, stamina, strength, co-ordination, balance and agility. Pupils will be given opportunities to work at their maximum and improve on their personal fitness levels. They will need to persevere when they get tired or when they find a challenge hard and are encouraged to support others to do the same.