YEAR GROUP OVERVIEW

North East Learning Trust

Year 5/6 – Autumn 2

English - Reading

In reading lessons, pupils continue to develop their fluency knowledge and skills through a wide range of genres, including fiction, non-fiction and poetry.

Pupils also develop core reading skills through the range of texts they read:

- Vocabulary
- Retrieval
- Inference
- Prediction
- Summary
- Authorial intent

This half term's text is The Explorer by Katherine Rundell.

English - Writing

Pupils write texts using this half term's texts as a stimulus through our NELT Key Stage 2 Teaching and Learning Cycle. They will learn key grammar and punctuation knowledge within writing lessons which they will use within their writing.

Diary: Write a diary of Fred after the plane crash.

Narrative: Plan and write a narrative from the viewpoint of an explorer.

Explanation: Explaining how to survive in the jungle.

Maths

The NELT chosen scheme of learning in Year 5/6 is White Rose Maths. This half term, pupils learn:

Year 5

During the Year 5 autumn term, following the White Rose Maths scheme, children focus on **multiplication, division and fractions**. In multiplication and division, they develop their understanding of multiples, common multiples, factors and common factors, as well as identifying prime, square and cube numbers. They also learn to multiply and divide numbers by 10, 100 and 1,000, recognising the impact this has on place value. When moving on to fractions, children explore equivalent fractions, convert between improper fractions and mixed numbers, and compare and order fractions with different denominators. They also develop their skills in adding and subtracting fractions, including fractions greater than one and mixed numbers. Throughout both topics, children are encouraged to use a range of mathematical

strategies, explain their reasoning and apply their knowledge to solve problems with increasing confidence and independence.

Year 6
During the Year 6 autumn term, following the White Rose Maths scheme, children develop their understanding of **multiplication, division and fractions**. In multiplication and division, they explore common factors and multiples, rules of divisibility, prime numbers, square and cube numbers, and develop their skills in multiplying up to four-digit numbers by two-digit numbers. They also learn to use short and long division, including calculations with remainders, and apply their knowledge to solve multi-step problems involving the four operations and the order of operations. When studying fractions, children build on their previous knowledge by simplifying fractions, finding equivalent fractions, and comparing and ordering fractions. They also learn to add and subtract fractions with different denominators, including mixed numbers, as well as multiplying fractions by integers and other fractions, dividing fractions by integers and finding fractions of amounts. Throughout these topics, children are encouraged to use efficient written and mental methods, explain their mathematical reasoning and apply their knowledge to increasingly challenging problem-solving activities.

Science
Electricity: Children will develop their understanding of how to construct simple series circuits using a range of components, including cells, batteries, bulbs, buzzers, motors, wires and switches. Children investigate how changing the number and voltage of cells affects the brightness of bulbs and the volume of buzzers. They also explore how different components work, identify why some circuits may not function correctly and learn how switches open and close a circuit. In addition, children learn to recognise and use standard electrical symbols to draw and interpret circuit diagrams. Throughout the topic, they carry out practical investigations, make predictions, observe changes, record results and use scientific vocabulary to explain their findings and develop their understanding of how electricity works.

Geography
Location, Location, Location: This project investigates and compares three different locations: Moscow, Rio de Janeiro and Arizona (specifically The Grand Canyon National Park). Learning will focus on human and physical features, landmarks, population and time zones. Pupils will then look at these places as tourist destinations and take part in a debate where they use their learning to argue the case for people to visit their chosen location.

Design Technology
Steady Hands: Design a steady hand game, research and analyse a range of pupils' toys. Test and evaluate their game.

Computing
Networking: The pupils follow the Purple Mash Computing Scheme of Work. This term the children study **Networks**, developing their understanding of how computers and devices connect and communicate with one another. They explore the difference between the Internet and the World Wide Web and learn how the Internet

works. Children investigate different types of networks, including Local Area Networks (LAN) and Wide Area Networks (WAN), and discover how their school network allows them to access the Internet and share information.

Modern Foreign Language (MFL)

Homes and Houses: During this half term the children will learn vocabulary for rooms in the house and furniture nouns inspired by artist Piet Mondrian, write descriptive sentences, explore French castles and their vocabulary, play "Escape from the Castle," create their own ‘Enter the castle! stories, and discover the whereabouts of the Christmas Elf while revisiting personal information and prepositions.

PSHE

Celebrating Differences: Children will explore the topic of Celebrating Difference, developing their understanding of diversity, equality and respect for others. They learn that everyone is unique and that differences in culture, race, religion, ability and personal characteristics should be valued and celebrated.

Religious Education (R.E.)

How is the Qur’an vital to Muslims today? The children will learn important events during the Night of Power and the giving of the Qur'an, actions a Muslim might take to show respect to the Qur'an and why, sayings from the Qur’an and understanding that there may be different interpretations.

Physical Education (P.E.)

Gymnastics: The children will develop their gymnastics skills by creating and performing a range of sequences using different movements, balances, rolls and jumps. They focus on improving their flexibility, strength, control and co-ordination, while exploring how to move smoothly between different actions. Children learn to perform movements with accuracy, demonstrate good body tension and use a variety of levels, directions and shapes. They are also encouraged to create imaginative sequences, evaluate their own and others' performances and make improvements to develop their confidence and creativity.