Geography



Local Study of the River Coquet

National Curriculum Links:

Pupils should be taught to:

- name and locate counties and cities of the UK and their identifying physical characteristics including rivers.
- describe and understand key aspects of physical geography including: rivers and the water cycle.
- use maps and atlases to locate and describe features studied.
- use the eight points of a compass, four and six figure grid references, symbols and keys including the use of Ordnance Survey maps.
- use field work to observe, measure, record and present the human and physical features in the local area using a range of methods, including sketch maps, plans, graphs and digital technologies.

Learning Outcomes:

Children will be able to:

- explain the features of the water cycle and why it is a closed cycle
- use atlases to locate rivers both in the UK and around the world
- identify the features of a river's course
- compare the features of a river at different points along its course
- describe how rivers can change over time
- use four and six figure grid references to give accurate locations on a map
- interpret OS maps, including using a key
- state the advantages and disadvantages of different uses of a river
- create sketch maps of a local river

Educational Visit Link: a) Canoeing on the River Coquet
b) Cragside / Rothbury visit

Outdoor Learning Opportunities

Science – Light

- Explore shadows by investigating the impact of position and time
- Investigate how the human eye interprets lights and produce a model using natural materials.

Geography – River Coquet

- Recreating and labelling the River Coquet.

Geography – Map Reading

- Use of ordinance survey maps within the local community

Foreign Languages

French: Classroom instructions and Greetings

National Curriculum Links:

Pupils should be taught to:

- listen attentively to spoken language and show understanding by joining in and responding
- engage in conversations, ask and answer questions.
- speak in sentences using familiar vocabulary
- read carefully and show understanding of words, phrases and simple writing.

Learning Outcomes:

Children will be able to:

- understand and give a variety of classroom instructions.
- greet each other, asking how you are and be able to reply
- read, write and say the days of the week.
- read, write and say numbers to 20

Spy Kids - Home Alone!

Religious Education

Islam: Does belief in Akhirah help Muslims to lead good lives?

Learning Outcomes:

Children will be able to:

- explain how knowing that our actions have consequences make a difference to the choices they make.
- describe some of the ways that Muslims try to lead lives respectful to God and say why this is important to them.
- explain how believing in Akhirah influences Muslims to do their best to lead good lives.
- recognise what motivates or influences me to lead a good life and compare it with what motivates and influences Muslims.

Pupil Parliament

Learning Outcomes:

Children will be able to:

- understand the importance of having laws and how these are made.
- learn what role Parliament plays in passing a law.
- understand the importance of debate and scrutiny before laws are passed.
- recognise key terms such as Bill, law, debate and scrutiny.

Design Technology



Structures: Building Bridges

National Curriculum Links:

Pupils should be taught about:

- use research and develop design criteria to inform the design of innovative, functional, appealing products that are fit for purpose, aimed at particular individuals or groups
- generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computer-aided design
- evaluate their ideas and products against their own design criteria and consider the views of others to improve their work
- apply their understanding of how to strengthen, stiffen and reinforce more complex structures

Learning Outcomes:

Children will be able to:

- explore ways in which pillars / beams are used to span gaps.
- explore ways in which trusses can be used to strengthen bridges.
- explore ways in which arches are used to strengthen bridges.
- explain how suspension bridges are able to span long distance
- develop criteria and design a prototype bridge for a purpose.
- analyse and evaluate products according to design criteria

Educational Visit Link: a) Warkworth bridge (Canoeing)
b) Cragside

Physical Education



Rugby Coaching and Cricket

National Curriculum Links:

Pupils should be taught to:

- use running, jumping, throwing and catching in isolation and in combination
- play competitive games, modified where appropriate and apply basic principles suitable for attacking and defending
- develop flexibility, strength, technique, control & balance

Canoeing

- take part in outdoor and adventurous activity challenges both individually and within a team

Science

Light

National Curriculum Links:

- planning different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary
- reporting and presenting findings from enquiries, including conclusions, causal relationships and explanations of and degree of trust in results, in oral and written forms such as displays and other presentations
- recognise that light appears to travel in straight lines
- use the idea that light travels in straight lines to explain that objects are seen because they give out or reflect light into the eye.
- explain that we see things because light travels from light sources to our eyes or from light sources to objects and then to our eyes
- use the idea that light travels in straight lines to explain why shadows have the same shape as the objects that cast them

Learning outcomes:

Children will:

- review understanding of light and shadow and to explore how light travels.
- To investigate how we see things through light entering the eyes.
- To explore how light can be reflected and change direction.
- To investigate reflections from a variety of surfaces.
- To be able to plan and carry out an experiment to investigate how shadows behave.
- To explore the differences between shadows and reflections and consolidate knowledge of how we see things.

Music



- Charanga: Livin' on a Prayer (Yr6) / Happy (Yr5)

National Curriculum Links:

Pupils should be taught to:

- play and perform in solo and ensemble contexts, using their voices and playing musical instruments with increasing accuracy, fluency, control and expression
- improvise and compose music for a range of purposes
- listen with attention to detail and recall sounds
- Appreciate and understand a wide range of high-quality live and recorded music drawn from different traditions and from great composers and musicians

Maths

National Curriculum Links:

Year 5 – Number and Place Value, Addition, Subtraction and Statistics (*White Rose*)

Pupils should be taught to:

- Read, write order and compare numbers up to at least 1,000,000 and determine the value of each digit.
- Count forwards and backwards in steps of powers of 10 for any given number up to 1,000,000.
- Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero.
- Round any number to 1,000,000 to the nearest 10, 100, 1000, 10,000 and 100,000.
- Solve number problems and practical problems that involve all of the above.
- Read Roman numerals to 1000 (M) and recognise years written in Roman numerals.
- Add and subtract whole numbers with more than 4 digits, including using formal written methods.
- Add and subtract numbers mentally with increasingly large numbers.
- Use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy.
- Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.
- Multiply and divide numbers mentally drawing
- Solve comparison, sum and difference problems using information presented in a line graph.
- Complete, read and interpret information in tables including timetables.



Maths

National Curriculum Links:

Year 6 – Number and Place Value, Addition, Subtraction, Multiplication and Division (*White Rose*)

Pupils should be taught to:

- Read, write, order and compare numbers up to 10,000,000 and determine the value of each digit.
- Round any whole number to a required degree of accuracy.
- Use negative numbers in context, and calculate intervals across zero.
- Solve addition and subtraction multi-step problems in contexts, deciding which operations to use and why.
- Multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication.
- Divide numbers up to 4 digits by a two-digit whole number using the formal written method of long division, and interpret remainders as whole numbers, fractions or by rounding, as appropriate for the context.
- Perform mental calculations, including with mixed operations and large numbers.
- Identify common factors, common multiples and prime numbers.
- Use knowledge of the order of operations to carry out calculations involving the four operations.
- Solve number and practical problems that involve all of the above.

PSHE

Relationships:

National Curriculum Links (PSHE Association):

Pupils should be taught about:

- Feelings and emotions:
  recognising and responding to others' feelings; keeping a confidence or a secret; recognising and managing dares
- Valuing differences:
  Recognising stereotypes; different types of relationships; respecting similarities and differences; bullying and discrimination

English



Faraway Fiction – Kensuke's Kingdom (Rowan, Larch & Sycamore)
News Reports (Sycamore class)

National Curriculum Links:
Pupils should be taught to:

- Continuing to read and discuss an increasingly wide range of genres.
- Develop positive attitudes to reading and understanding of what they read by increasing their familiarity with a range of books and text types
- Discuss the words that capture the readers interest
- Explain and discuss their understanding of what they have read
- Retrieve and record information from fiction and non-fiction books
- Identify the audience for and purpose of a piece of writing
- Plan, draft, write, evaluate and edit their written work
- Read aloud their own writing, using appropriate intonation and controlling the tone and volume so that the meaning is clear
- Increase the legibility, consistency and quality of their handwriting
- Proof read for spelling and punctuation errors

Mastery Maths

Geography: Rivers
After looking at rivers in the United Kingdom the children will convert lengths of rivers from miles to km and rank them in ascending and descending order.

Science: Light
Children will investigate angles and distance of shadows and record this information and present it as a line graph.

Design Technology: Bridges
Children will draw their plan for building bridges using scale factor.

Mastery English

Geography: Rivers
Children will write and perform a script for a Newsround style programme about flooding in the local area.

History: Lord Armstrong
Children will produce a written, non-fiction piece about Lord Armstrong and Cragside.

DT: Building Bridges
Children will write an evaluation of their bridges using a success criteria.

Computing

- E-Safety

National Curriculum Links:
Pupils should be taught to:

- use technology safely, respectfully and responsibly; recognise acceptable / unacceptable behaviour; identify a range of ways to report concerns about content and contact.

Learning Outcomes:
Children will be able to:
- find similarities and differences between in-person and cyberbullying.
- identify good strategies to deal with cyberbullying.
- identify secure websites by identifying privacy seals of approval.
- understand the benefits and pitfalls of online relationships.
- identify information that should never be shared.



- Word processing and Publisher

National Curriculum Links:
Pupils should be taught to:

- use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content
- select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information.

Learning Outcomes:
Children will be able to:
- format images, use formatting tools to create an effective layout,
- use spellcheck
- insert and format a table
- change page layout

History

Local Study of Cragside and Lord Armstrong

National Curriculum Links:
Pupils should be taught to:

- a study of an aspect of history or a site dating from a period beyond 1066 that is significant in the locality.

Learning Outcomes:
Children will be able to:
- explain the history and significance of Cragside House
- explain the history of Sir William Armstrong and his achievements relating to hydroelectricity
- identify other hydraulic mechanisms inspired by the work of Lord Armstrong.

Science

Electricity

National Curriculum Links:

Pupils should be taught to:

- plan different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary
- report and present findings from enquiries, including conclusions, causal relationships and explanations of and degree of trust in results, in oral and written forms such as displays and other presentations
- associate the brightness of a lamp or the volume of a buzzer with the number and voltage of cells used in the circuit
- compare and give reasons for variations in how components function, including the brightness of bulbs, the loudness of buzzers and the on/off position of switches
- use recognised symbols when representing a simple circuit in a diagram

Learning outcomes:

Children will be able to:

- recap knowledge of electricity and circuits
- investigate ways in which the brightness of a bulb or speed of a motor is changed.
- recognise and use conventional symbols for circuits
- plan, carry out and evaluate an experiment to see how changing the wire in a circuit affects the brightness of a bulb.
- review and assess understanding of circuits.