Year 3 Spring:
How has water shaped our world?

Geography
Man-made and physical bodies of water

Human and physical geography of rivers and canals

Field sketching

History
Henley: the waterways past and present

Significance of waterways and transportation

Explore the future uses of canals and waterways

Art
Claude Monet

Watercolours

Tone and colour using watercolours

Design and Technology
Boat designs fit for purpose

Design a boat

with measurements and labels

Make a boat with appropriate materials and equipment

RE
Christianity: Could Jesus heal people? Were these miracles or are there other explanations?

What is 'good' about Good Friday?

Music
Compose using your imagination and musical styles

Messing About on the River- Josh McRae

Create a melody or find sounds that represents a story

Pop, Disco, Ballad, Soul, Musicals, Romantic, Rock, Native American, Gospel

Explore changes in dynamics in music.

Science
Animals and habitats

Forces: contact, impact and frictional

Materials and magnets

PSHE
Why are healthy relationships important?

How do I create and maintain positive relationships?

Whose responsibility is it to keep ourselves and others safe?

What are good risks and bad risks?

PE
Gymnastics: body movement, vault, floor routines

Disability games: boccia and seated goalball

Small group invasion games, position and strategy

Computing
Programming sprites

Sequencing and demands

Word and pictures

Editing and adding content

Year 3 Spring: How has water shaped our world?

Literacy

Writing

Planning
- ✓ Discuss writing similar to that which they are planning to write to learn from its structure, vocab and grammar.
- ✓ Record ideas to inform own compositions (i.e. in the magpie books).

Draft and Write
- ✓ Composing and rehearsing sentences orally and reflecting on vocabulary choices.
- ✓ Structure paragraphs around a theme/topic.
- ✓ Use preposition phrases and adverbials to express time and cause.
- ✓ In narratives, create and describe settings and characters and devise plots through:
- ✓ Innovating on shared vocabulary choices that suit purpose.
- ✓ Using expanded noun phrases and preposition phrases.
- ✓ Describing characters in terms of appearance and behaviour.
- ✓ Creating a beginning, middle and end.
- ✓ In non-fiction, use Standard written English.

Evaluate & Edit
- ✓ Assess the effectiveness of own writing and others suggesting improvements.
- ✓ Propose changes to grammar and vocabulary to improve consistency.
- ✓ Proof-read for spelling and punctuation errors.
- ✓ Reading their work aloud using intonation and voice control for clarity of meaning.

Grammar
Be able to identify and use:
- ✓ Preposition phrases.
- ✓ Adverbials.
- ✓ Coordinating and subordinating conjunctions.
- ✓ word families
- ✓ prefixes and suffixes
- ✓ phrases, clauses and subordinate clauses.
- ✓ direct speech and inverted commas.
- ✓ consonant, consonant letter vowel, vowel letter

Reading
- ✓ Identify how language and presentation contributes to meaning
- ✓ Retell some fairy tales or traditional tales orally.
- ✓ Discuss words that capture the reader's interest.
- ✓ Infer feelings, thoughts & motives of characters and link to the text using evidence.
- ✓ Read own writing aloud using appropriate intonation, tone and volume.
- ✓ Use age-appropriate dictionaries to check the meaning of words.
- ✓ Retrieve key information from non-fiction.
- ✓ Apply knowledge of root words, prefixes and suffixes to understand new words.
- ✓ Identify conventions of stories and basic themes.
- ✓ Discuss books they read and have read to them, taking turns and listening to others.
- ✓ Summarise main ideas from a paragraph.
- ✓ Discuss a wide range of fiction, poetry, plays, non-fiction (ongoing).

Key vocabulary:
Preposition, word family, prefix, clause/subordinate clause, subordinating conjunction, direct speech, present perfect tense, paragraph

Maths

Number – Multiplication and Division
- ✓ Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables
- ✓ Write and calculate mathematical statement for multiplication and division using the multiplication tables that they know, using mental and progressing to formal written methods
- ✓ Solve problems that involve multiplication and division

Key vocabulary: place value (hundreds, tens and ones), estimate, inverse, commutative, equal parts, share, groups, lots of, estimate

Measurement – Length and Perimeter
- ✓ Measure, compare, add and subtract lengths (m/ cm/ mm)
- ✓ Measure perimeter of simple 2-D shapes

Key vocabulary: m, cm, mm, length, measure, perimeter

Fractions
- ✓ Recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators
- ✓ Compare and order unit fractions, and fractions with the same denominator
- ✓ Recognise and show, using diagrams, equivalent fractions with small denominators

Key vocabulary: fraction, order, compare, equivalent, numerator, denominator, greater than, less than, third, quarter, fifth, equal parts

Measurement – Mass and Capacity
- ✓ Measure, compare, add and subtract mass (kg, g) and volume/ capacity (l/ml)

Key vocabulary: kg, g, litres, ml, compare, measure, equal to, difference

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Geography

Locations
- ✓ identifying human and physical characteristics and land-use patterns of place in the U.K

Key vocabulary: commercial, leisure

Human and Physical
- ✓ Use geographical vocabulary to refer to Henley and the surrounding areas.
- ✓ Understand how the Geography of a river has changed over time
- ✓ Understand trade links

Key human vocabulary: canal, economic activity, trade

Key physical vocabulary: rivers, chalk hills

Skills
- ✓ use fieldwork to observe, measure, record and present the human and physical features in the local area

History

Chronology of events
- ✓ Analyse photographs and maps of Henley from the past
- ✓ Research and create a timeline detailing the history of boats, their purpose and why they are significant to Henley

Key vocabulary: canals, rivers, waterways, locks, Regatta, houseboats, trawlers, steamers, destroyers, longboats, passenger ships, cargo ships, oil ships, merchant ships, vessel, flagship, ocean liner, warship, rowing boat, sailing boat

Historical enquiry and forming conclusions from a variety of sources
- ✓ Explore the usage of waterways in the past
- ✓ Examine why rivers and canals are still important in this modern age
- ✓ Debate whether rivers and canals will continue to be significant in history

Key vocabulary: engineer, architect, cargo, British Empire, population, industry growth, Kennet & Avon, locks, Floating Harbour, River Thames

MFL

Oracy:
- ✓ Say key vocabulary (animals, fruits)
- ✓ Ask and answer questions about likes and dislikes

Literacy:
- ✓ Read and write key words accurately

Intercultural understanding:
- ✓ Grammar differs from English (gender)

Key vocabulary: animals, fruit, I like, I don't like, I am

PE:
- ✓ Hand-Eye Coordination/Pass & Receive/Control/Striking – Hockey
- ✓ Catching/Passing/Target/Movement – Basketball
- ✓ Hand-Eye Coordination/Striking/Control – Tennis
- ✓ Target/Control/Strategy/Striking – Tri-Golf

Science

Animals, including humans
- ✓ Investigate various animals that live in and around rivers and water
- ✓ Explore why water is a suitable habitat for these animals

Key vocabulary: fish, webbed, gills, fins, fresh water, salt water

Forces and magnets
- ✓ Compare how things move on different surfaces
- ✓ Notice that some forces need contact, but magnetic forces can act at a distance
- ✓ Observe how magnets attract and repel each other and predict, based on their poles, whether they will attract or repel each other
- ✓ Compare and group a variety of everyday materials on the basis of whether they are magnetic or not

Key vocabulary: forces, push, pull, friction, surface, magnetic, magnetic field, pole, north, south, attract, repel

Art

Media:
- ✓ Drawing

Appreciation:

Artist: Monet
- ✓ To describe how a piece of art makes you feel giving reasons
- ✓ To create art work in the same style as an artist

Skills:

Exploring and developing ideas:
- ✓ To explore using pastels to add tone
- ✓ To draw from a view point
- ✓ Explore taking a line for a walk

Investigating and making art:
- ✓ To combine images to make a new image
- ✓ To use a view finder to select a view

Evaluating and developing art:
- ✓ Identify similarities and differences between own work and others
- ✓ To identify aspects that could be improved and suggest solutions

Key vocabulary: View point, view finder, images, tone, blending

RE

Christianity
- ✓ Understand the significance of hymns to Christians
- ✓ Understand why hymns are used during celebrations

Christianity
- ✓ Understand why the story of the Last Supper is important to Christians
- ✓ Understand the importance of Holy Communion to Christians

Key vocabulary: Hymns, celebration, community, express, faith, last supper, communion

Computing

Information Technology – Use a range of software
- ✓ Decide on information to be recorded
- ✓ Input the information in the database
- ✓ Evaluate information

Key vocabulary: Information, Recording, Standard format, Database Row, Column, Cells, Evaluate

Music

Appreciate
- ✓ Listen and respond to 'Messing about on the river' by Josh McCrae.

Perform and Share
- ✓ Learn about the importance of practice and building confidence when learning and performing songs to an audience as part of the Year 3 / 4 performance.

Play, Sing and Create
Learn to play tuned instruments musically. (recorders)

Key vocabulary: Recorders, time signature, ¾ time, reed instruments, pitch

Outdoor Learning

Research
- ✓ Research techniques of being able to collect water
- ✓ Discuss which techniques we predict would be most effective
- ✓ Research the elements of a good boat

Design
- ✓ Design a system of being able to collect an amount of water over a period of time, using resources and materials available
- ✓ Design your boat and decide which natural resource you will use to make it

Create/ Evaluate
- ✓ Build/ create the system and use this to experiment with collecting water
- ✓ Observe and monitor the amount of water collected. Record measurements over time.
- ✓ Use natural resources to make a boat

Key vocabulary: water, collecting, measure, capacity, boat, float, mast

DT

Research:
- ✓ Find out about the materials used to make boats throughout history and today.

Design:
- ✓ Propose improvements to an existing boat design.
- ✓ Design a boat, thinking carefully about which materials are best suited to the purpose.
- ✓ Label designs with specific materials and measurements.

Create:
- ✓ Make a boat using chosen materials from designs.

Evaluate:
- ✓ Test the end product on the water. Propose a way to improve it to make it more suitable for its purpose.

Key vocabulary: Evaluate, design, create, suitable, justify, material, measurement, effective, purpose, improve

PSHE

Me and My Relationships
- ✓ Important, healthy relationships

Keeping myself safe
- ✓ **Taking risks, support networks**

Key Vocabulary: Balance, lifestyle, choice, wellbeing, true/false, achievements

How has water shaped our world?

How many different uses for canals can you think of?

fishing

recreation
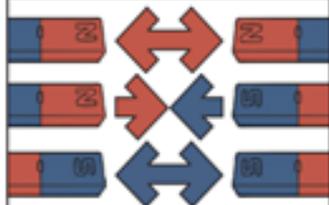
transport

Forces and magnets

friction

upthrust

Like poles repel.
Opposite poles attract.

What are the differences between canals, rivers and ponds?

Canal
A canal is a long, man-made strip of water used for irrigation or boat access to a bigger body of water

River
A flowing, moving stream of water. Usually a river feeds water into an ocean, lake, pond, or even another river.

Pond
A pond is a small area of still, fresh water. It is different from a river or a stream because it does not have moving water

What different water habitats can you identify?

Coral reef

Deep ocean

Mangrove swamp

Key Vocabulary

Canal	Canals are waterways that are built by people and used for shipping, travel, and irrigation.
Trade	Buying and selling goods and services.
Population	All the inhabitants of a particular place.
Cargo	Goods and produce carried on a ship, aircraft or motor vehicle.
Engineer	A person who designs, builds, or maintains engines, machines, or structures. .
Friction	A force that acts between two surfaces or objects that are moving or trying to move, across each other.
Magnetic	Objects which are attracted to a magnet are magnetic. Objects containing iron, nickel or cobalt metals are magnetic.
Repel	To push back or away by a force,. The opposite of attract.
Forces	Pushes or pulls.