

Science: Year group specific
Learning objectives (inc <b>key knowledge</b> ): 4 Electricity & Sound (appliances, <b>circuits, conductors and insulators</b> , sound sources, traveling, <b>vibrations</b> , changes) Y5 Earth & space & Forces ( <b>movement of the planets</b> , sun and moon, <b>day and night, gravity, air, water resistance</b> , levers and pulleys) Y6 Light & electricity ( <b>light travelling, seeing</b> , magnifying equipment, understanding <b>circuits</b> – parts, <b>watts</b> , drawing circuits)
Learning activities (inc. <b>assessment</b> ): Y4, Electricity - appliance hunt, safety posters, building circuits, Sound - biology of the ear, drum and rice vibrations, distance and sound experiment Y5, Earth & Space - solar system models, time zones, scientific evidence for the solar system, Forces - ramps and surfaces - friction, parachutes, boats, Y6, Light - how we see, reflection with mirrors, creating and changing shadows, Electricity - the history of electricity, how circuits are drawn, investigating circuits - brightness of bulbs, loudness of buzzers <b>Start of lesson quizzes, end of unit quiz/challenge, learning journal experiment</b>

Geography:
Learning objectives (inc <b>key knowledge</b> ): identify <b>features of a a river</b> (source, mouth, tributary), locate <b>rivers around UK</b> , locate rivers using compass points for direction, understand and explain <b>the water cycle</b> , describe how rivers are used, describe the impact of <b>damming and climate change</b> on rivers Understand OS maps and their symbols
Learning activities (inc. <b>assessment</b> ): glossary - matching definitions to key vocabulary, Model river (forest activity) - labelling parts, famous river game, importance of rivers, river study and boat trip, water cycle in a bag/biome resource, floods in York news articles, investigating OS map Assessment: quizzes at start of lessons, <b>Book art book on rivers</b>

History:
Learning objectives (inc <b>key knowledge</b> ): to explore the <b>importance of rivers</b> in History – particularly in York. To find out about historical <b>flooding events</b>
Learning activities (inc. <b>assessment</b> ): Investigating river use and why people settled, Flooding in York - newspaper articles and news reports, flooding data, writing newspaper article Assessment: <b>quizzes at start of lessons, book art book, Big write Newspaper article</b>

Physical Education:
Learning objectives (inc <b>key knowledge</b> ): Football/Dance Netball/Basketball/Dance – throwing catching, control, tactics, rules, partner/group work, creation and sequencing
Learning activities (inc. <b>assessment</b> ): throwing, catching, bouncing, kicking skills, small team games, larger team games, water cycle dance, yoga <b>Continuous observation, final lesson performance</b>

Religious Education: Year group specific
Learning objectives (inc <b>key knowledge</b> ): Y4: L2.3 Why is Jesus inspiring Y5 U2.1 Why do some people believe God exists Y6 U2.9 What can be done to reduce racism? Can religion help?
Learning activities (inc. <b>assessment</b> ): SACRE planning

Music:
Learning objectives (inc <b>key knowledge</b> ): Y4 = Violin Y5 = Ukulele Y6 = Percussion. Regular opportunities for Singing and Music Theory. Play and perform in solo and ensemble contexts, using their voices and playing musical instruments with increasing accuracy, fluency, control and expression. Use and understand staff and musical notations.
Learning activities (inc. <b>assessment</b> ): Mrs Martin - teaching instrument skills, music notation, performance, songs <b>Ongoing assessment and end of year achievement</b>



## Phase 3

### Autumn Term (Year A)

### Rivers

Design & Technology:
Learning objectives (inc <b>key knowledge</b> ): to use simple or more complex electrical systems (buzzers, switches, computer control) in a product
Learning activities (inc. <b>assessment</b> ): Y4 Electric systems -(link to science)Creating circuits, looking at electronic games, Final project - Quizzes linked to rivers using circuit - match questions to answers, lights up correct answers - Y5/6 More complex circuits crumble - lighthouse (lego) <a href="#">Crumble Projects   Redfern Electronics Lighthouse Project</a>   <a href="#">Redfern Electronics</a> Investigating lighthouses, lighthouses in history, make different circuit using crumble (an investigation), use construction materials to make a lighthouse, combine crumble circuit and construction to make working lighthouse Assessment: <b>quizzes at the start of lessons, final project, DT project booklet</b>

PSHE:
Learning objectives (inc <b>key knowledge</b> ): BM (Being Me in My World) 'Who am I and how do I fit?' CD (Celebrating Difference) Respect for similarity and difference. Anti-bullying and being unique
Learning activities (inc. <b>assessment</b> ): See Jigsaw lesson plans

French (MFL):
Learning objectives (inc <b>key knowledge</b> ): Y4 All About Me, Playground games Y5 All Aboard, At the toy shop Y6 Enjoy your meal, I am the Musicman
Learning activities (inc. <b>assessment</b> ): key vocabulary, games, songs, activities, <b>Observations throughout the lesson, french book recording</b> Madam Lawrence

Computing:
Learning objectives (inc <b>key knowledge</b> ): to use coding to create a simple program, including debugging, learn how to use a spreadsheet to display information, to use a simple animation program
Learning activities (inc. <b>assessment</b> ): hour of code - creating and controlling sprites, using spreadsheets to calculate multiplication facts, water cycle animations, movement of a river animations, Kat Y4 Autumn 1 Kat Y5/6 Autumn 2 Link to DT for Y5/6 - <a href="#">Crumble/coding</a> <b>hour of code record sheet, final tasks</b>

Art & Design:
Learning objectives (inc <b>key knowledge</b> ): to learn how to use line, and colour to create depth and texture in landscapes, to explore ways to show reflection in painting, to explore artists of landscapes and talk about the techniques used. Know about certain artists, such as <b>David Hockney</b>
Learning activities (inc. <b>assessment</b> ): colour mixing tertiary colours, artists: David Hockney, Georgia O'Keefe, Turner, Van Gogh - recreating techniques , line development – repeating patterns, texture - rubbings Final piece – landscape with a river - using techniques or styles learnt Assessment: <b>lesson recap quizzes, sketch book work, final piece</b>

Key vocabulary	Big Concepts	Reading across the Curriculum	Writing across the Curriculum	Enrichment Opportunities
<p>environmental, atlas, index, coordinates, latitude, longitude, key, symbol, Ordnance Survey, Silva compass, legend, borders, fieldwork, measure, observe, record, map, sketch, graph, evaporation, water cycle, evaporation, condensation, precipitation, cooling, river, source, mouth</p>	<p>Importance of rivers and their role in life and in places, impact of rivers on humans and humans on rivers. Trade. Flooding – impact on York. Water cycle. Development of York over time, around the rivers Foss and Ouse. Pollution and climate change.</p>	<p>Wind in the Willows - Kenneth Grahame Journey to the River Sea - Eva Ibbotson River Boy - Tim Bowler Water cycles - Dorling Kindersley A River - Marc Martic Song of the River - Jo Cowley Amazing Rivers: 100+ Waterways That Will Boggle Your Mind (Our Amazing World) Julie Vosburgh Agnone</p>	<p>Big writes – explanation (River Safety, features of a river, water cycle) Narrative Newspaper (Grace Darling) Poetry Book Art book (history/geography)</p>	<p>River study River boat trip along Ouse Water safety - Rescue Boat visit Forest school – dam making</p>