








Year Group: 4	Title: Rivers and Oceans
National Curriculum coverage: Locational knowledge (a & b) Place knowledge Human and physical Geography (a & b) Geographical fieldwork (a, b & c)	Context: <i>In Y3, the children learned about the mountains in the UK and then in the world. In Y4 the children will build on their knowledge of the UK and the rest of the world by adding rivers to their knowledge bank. By Y4 the children are also ready to study with more detail the concept of environmental impact when looking at the impact of plastic pollution on rivers, oceans and seas. This geography topic also sits alongside the Science unit on states of matter so the children gain a clearer understanding of the water cycle.</i>
Concepts: place, interdependence, physical and human processes, environmental impact, Geography Specific Concepts – Diversity, Change, Interaction, Place, Scale, Distance, Movement, Sustainability Project Specific Concepts – Sustainability, Responsibility, Beauty	Pre and Post Learning – Label a map of the world with the oceans and main rivers
Visits and Visitors: N/A	St. Mary's Experience: N/A
Careers/preparation for adulthood:  Map Maker (Cartographer) - Makes maps showing oceans and rivers.  Marine Biologist - Studies animals living in oceans like the Pacific Ocean.  River Scientist (Freshwater Ecologist) - Studies plants and animals living in rivers.  Environmental Scientist - Tests water to check if it is polluted.  Environmental Engineer - Designs ways to stop plastic getting into rivers and seas.	Key People: Locate main rivers of the UK & world John Snow - Showed how rivers affect human health; teaches the importance of clean water. Recognise the difference between seas & oceans David Attenborough - Through documentaries, explains oceans, seas, and how they differ. Know biodiversity in rivers, seas, oceans Rachel Carson, Jacques Cousteau, Sylvia Earle - Studied ecosystems; highlighted species in rivers (fish, otters), seas (crustaceans, fish), oceans (whales, coral reefs). Effects of water & plastic pollution Boyan Slat, Severn Cullis-Suzuki, WWF, Marine Conservation Society - Work on reducing pollution, cleaning rivers and oceans, and raising awareness. Actions to reduce pollution United Nations Environment Programme (UNEP), Wangari Maathai - Global initiatives to protect water; watershed conservation and pollution prevention.
<div style="display: flex; justify-content: space-between;"> <div style="border: 1px solid black; padding: 5px; text-align: center;"> <p>Solidarity</p>  <p>Showing we care</p> </div> <div style="text-align: center;"> <p>Catholic Social Teaching:</p> <p>Stewardship & Solidarity – understanding the impact of our actions on God's creation and how we need to work together to care for it</p> </div> <div style="border: 1px solid black; padding: 5px; text-align: center;"> <p>Stewardship</p>  <p>Caring for God's gifts</p> </div> </div>	British Values: The Rule of Law Laws and regulations that protect rivers, seas, and oceans in the UK and internationally. Mutual Respect Respect for differing opinions on the human impact on the environment.

<p>End points (by the time pupils leave St. Mary's):</p> <ol style="list-style-type: none"> 1. Be able to navigate using atlases, maps and recall of knowledge of places. 2. Be able to interpret and express geographical information correctly (maps, fieldwork, data) 3. Know where in the world significant places are (including local and worldwide) and the people who live there (population, settlement, migration, diversity) 4. Know how the earth's physical features were formed and transformed along with processes that affect it (E.g. weather, climate, tectonic activity and water cycle) 5. Know how the earth has been affected by humans and resolve to alter their behaviour (i.e. climate change and sustainability) 										
<p>Prior knowledge:</p> <p>Y2</p> <ul style="list-style-type: none"> • Know the names of the 7 continents and locate them on a map, Know the names of the 5 oceans and locate them, • Describe how people in different areas might live in different ways, • Identify common land/water features – mountains, hills, seas, rivers etc <p>Y3</p> <ul style="list-style-type: none"> • Locate key mountain ranges, mountains and volcanoes on a map • Know how the earth is structured including tectonic plates and their movement • Know hoe volcanoes are formed, what causes them to erupt and the effect this has on the landscape • Recognise the effects that a volcanic eruption will have on people living near it. 	<p>Future knowledge: Y5</p> <ul style="list-style-type: none"> • Know the difference between weather and climate and locate 6 main climate zones • Be able to explain what a biome is • Locate biomes on a map and describe their features • Know the cause and effect of climate change • Recognise the effect human actions can have on biomes (e.g. pollution, plastic, climate change, over fishing) 									
<p>Crucial knowledge: Y4</p> <ul style="list-style-type: none"> • Locate the main rivers of the UK and world on a map • Recognise the difference between seas and oceans • Know the different biodiversity found in rivers, seas and oceans • Know what effect water pollution and plastic pollution has on rivers, seas and oceans around the world and actions that can reduce this. 	<p>Vocabulary</p> <table border="1"> <thead> <tr> <th>Tier 2 (General Academic Vocabulary - These are high-utility words used across multiple subjects)</th> <th>Tier 3 (Domain-Specific Vocabulary – These are specialized terms primarily used in music)</th> </tr> </thead> <tbody> <tr> <td>1 & 2. Locate, Identify, Map, Region, Environment, Compare, Difference, Feature</td> <td>1 & 2. River, Tributary, Source (of a river), Mouth (of a river), Flow, Meander, Delta, Estuary, Sea, Ocean, Coastline, Continent, Hemisphere, Basin, Mouth, Meander, Source</td> </tr> <tr> <td>3. Organism, Species, Habitat, Population, Adaptation, Community</td> <td>3. Freshwater (rivers, lakes), Saltwater (seas and oceans), Plankton, Fish, Algae, Coral reef, Mangrove, Wetland, Predator / Prey, biodiversity</td> </tr> <tr> <td>4. Pollution, Effect, Impact, Reduce, Protect, Harm, Human activity</td> <td>4. Water pollution, Plastic pollution, Oil spill, Runoff, Wastewater, Ecosystem, Biodegradable, Conservation, Floodplain</td> </tr> </tbody> </table>		Tier 2 (General Academic Vocabulary - These are high-utility words used across multiple subjects)	Tier 3 (Domain-Specific Vocabulary – These are specialized terms primarily used in music)	1 & 2. Locate, Identify, Map, Region, Environment, Compare, Difference, Feature	1 & 2. River, Tributary, Source (of a river), Mouth (of a river), Flow, Meander, Delta, Estuary, Sea, Ocean, Coastline, Continent, Hemisphere, Basin, Mouth, Meander, Source	3. Organism, Species, Habitat, Population, Adaptation, Community	3. Freshwater (rivers, lakes), Saltwater (seas and oceans), Plankton, Fish, Algae, Coral reef, Mangrove, Wetland, Predator / Prey, biodiversity	4. Pollution, Effect, Impact, Reduce, Protect, Harm, Human activity	4. Water pollution, Plastic pollution, Oil spill, Runoff, Wastewater, Ecosystem, Biodegradable, Conservation, Floodplain
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Geography Overview