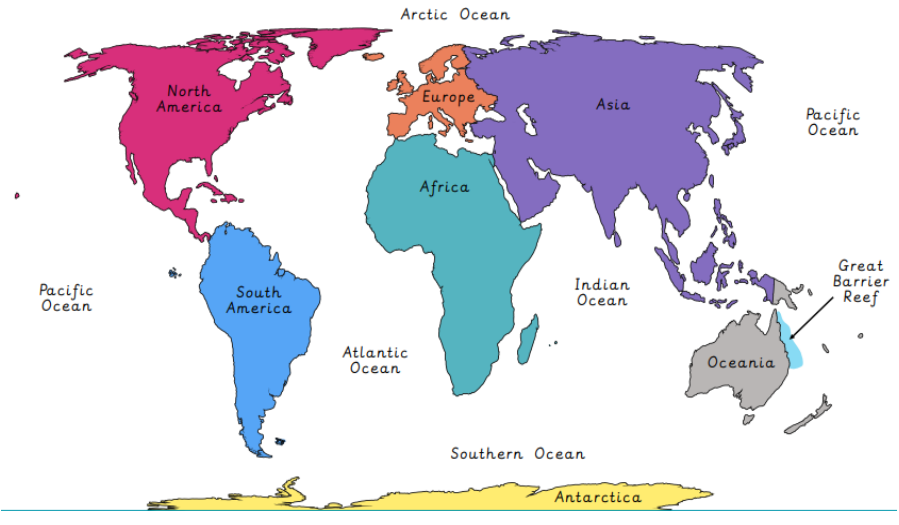










Winhills Primary Academy - Knowledge Organisers	Summer Term – Year 4/5 Why do oceans matter?
<p><b>Key Vocabulary</b></p> <p><b>Ocean current</b>- The movement of a large area of seawater driven by the wind, gravity and water density.</p> <p><b>Coral reef</b>- A large rock structure in the ocean formed by corals</p> <p><b>Coral bleaching</b>- A process which turns coral white, losing its colour.</p> <p><b>Marine</b>- Relating to the ocean</p> <p><b>Threat</b>- Something likely to cause damage.</p> <p><b>Microplastics</b>- Tiny pieces of plastic created from plastic waste.</p> <p><b>Acidification</b>- The process of making something acidic</p> <p><b>Over fishing</b>- The number of fish decreases as a result of extreme amounts of fishing</p> <p><b>Biodegradable</b>- When something naturally breaks down and returns to nature</p> <p><b>Marine-protected area</b>- A designated geographical area of the ocean that is protected and managed.</p> <p><b>Single use plastic</b>- Plastic only used once and then thrown away.</p>	<p><b>Video links</b></p> <p><a href="https://video.link/w/61Si14Y46Hk">https://video.link/w/61Si14Y46Hk</a>  <a href="https://www.youtube.com/watch?v=X6BE4VcYngQ">https://www.youtube.com/watch?v=X6BE4VcYngQ</a>  <a href="https://video.link/w/P7CCd">https://video.link/w/P7CCd</a>  <a href="https://video.link/w/W4TCd">https://video.link/w/W4TCd</a></p> <p><b>Books linked to the oceans</b></p> <p>Big Book of the Blue- By: Yuval Zommer          Deep in the Ocean- By: Lucie Brunelliere          Meet the Oceans- By Caryl Hart          Professor Astro Cat's Deep-Sea Voyage- by Dr Dominic Walliman (our English text)</p>
<p><b>Key points- Why do oceans matter?</b></p> <ul style="list-style-type: none"> <li>• They are used for trading between countries.</li> <li>• Ocean currents influence our weather.</li> <li>• They provide food and jobs.</li> <li>• They are used for fun activities.</li> <li>• They give us ingredients for medicine.</li> <li>• They absorb carbon dioxide and warm our planet.</li> <li>• Coral reefs act as a buffer to natural disasters.</li> <li>• Coral reefs are home to a quarter of our marine species.</li> </ul>	<p><b>Oceans on a world map</b></p> 
<p><b>Helpful websites</b></p> <p><a href="https://kids.kiddle.co/Great_Barrier_Reef">https://kids.kiddle.co/Great_Barrier_Reef</a>  <a href="https://kids.kiddle.co/Ocean">https://kids.kiddle.co/Ocean</a>  <a href="https://www.bbc.co.uk/bitesize/articles/zr6qjsg">https://www.bbc.co.uk/bitesize/articles/zr6qjsg</a>  <a href="https://mapmaker.nationalgeographic.org/map/05ee0056dfa242a59da98ecab197f777/edit">https://mapmaker.nationalgeographic.org/map/05ee0056dfa242a59da98ecab197f777/edit</a>          This last link is a map maker. You can start with a base map and add different layers. For example, number 6 looks at coral bleaching, number 22 looks at ocean currents. It is very cool to explore!</p>	

Key images			
<p><b>Coral Reef</b></p>   <p><b>Coral bleaching</b></p>  	<p><b>Plastic pollution</b></p>  <p><b>The Great Barrier Reef</b></p> 	<div> <p>Why are our oceans suffering?</p> <ul style="list-style-type: none"> <li>Coral bleaching</li> <li>Plastic pollution</li> <li>Overfishing</li> <li>Climate change</li> </ul> </div> <div> <p><b>STAGES OF CORAL BLEACHING</b></p> <ol style="list-style-type: none"> <li><b>1 HEALTHY CORAL</b> Healthy symbiosis between coral and algae.</li> <li><b>2 CORAL UNDER STRESS</b> Symbiosis breaks down, algae departs.</li> <li><b>3 BLEACHED CORAL</b> Algae absent, coral skeleton turns white.</li> <li><b>4 DEATH</b> Other algae species encrust coral skeleton.</li> </ol> </div>	<p><b>Over fishing</b></p>  
Places to visit		Questions to think about	
<p>A beach- For example: Hunstanton, Great Yarmouth, Felixstowe, Heacham,  A sea life centre – e.g Hunstanton sea life, Great Yarmouth Sea life, Birmingham  An Aquarium (store)- Aquarium Gardens in Huntingdon, Maidenhead Aquatics (Huntingdon)</p>		<p>Why are our oceans important?  What country is the Great Barrier Reef in?  How are coral reefs beneficial?  How do you think humans are damaging coral reefs?  How is plastic getting from the land to the ocean?</p>	