

# Half-termly planning overview Year 5 - Autumn Term 2



**Enquiry question:** How can we ensure our oceans stay amazing?

**Harmony principle:** The principle of Interdependence

**Great Work:** Sharing 'TED Talks' on reducing ocean pollution

**Partners in learning:** Billingsgate Seafood School

**Sustainability theme:** Finding ways to reduce plastic waste



Weekly Questions						
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
	<b>What living things do we find in the seas around the UK?</b>	<b>How is all life within the ocean interdependent?</b>	<b>Why are starfish so important to ocean ecosystems?</b>	<b>What does 'sustainable fishing' mean?</b>	<b>How does plastic threaten the health of our oceans?</b>	<b>What can we do to protect our oceans?</b>
<b>GEOMETRY</b>	How can a logarithmic (square) spiral help me create a wave design?	How can I recreate the symmetry of different sea shells?	What sort of symmetry can I find in different species of starfish?	How can I construct a vesica and use it to help me sketch fish?	How do hexagons tessellate on a turtle's shell?	How can I construct a Fibonacci spiral to draw a nautilus shell?
<b>SCIENCE</b>	How can we classify the living things in our oceans?	How are living things in an ocean food web interdependent?	How do starfish help maintain healthy ecosystems? (keystone species)	What happens when a solid dissolves in a liquid? (salt-water)	How can I separate a solid from a solution? ('growing' salt crystals)	How can I present what I have learnt from our salt crystal investigation?
<b>ENGLISH</b>	What makes an effective opening and build-up to an ocean adventure story?†	How can I create tension in an ocean adventure story?†	How can I resolve my ocean-based adventure story? How can I edit my story?†	What makes an effective poster about choosing sustainable fish?	How will I plan a 'TED Talk' about plastic pollution in the ocean?	How will I present my own 'TED Talk' about reducing plastic waste in the ocean?
<b>GPS FOCUS</b>	What is a relative clause?	How do I use a comma to mark a relative clause?	How can I use two commas to embed a relative clause in a sentence?	How can I use brackets to show parenthesis?	How can I use dashes to show parenthesis?	How can modal verbs be used to persuade?
<b>MATHS</b>	How can I present, interpret and compare data about the UK coastline?	How can I use train and tide timetables to plan a journey to the coast?	How can x help me understand how keystone species keep other species in check?	How can I use addition and subtraction to solve problems about fish stocks?	How accurately can I measure and classify angles in hexagons and other polygons?	How can I describe regular and irregular polygons based on their angles and sides?
<b>GEOGRAPHY</b>	What are the features of the coastline around the UK?	What villages, towns and cities do we find along the UK coastline?	How have coastal villages, towns and cities in the UK changed over time?	What different types of fishing are used around the world?	What are the major oceans of the world and where are they located?	What is our role in protecting the oceans?
<b>ART &amp; DESIGN</b>	What will I include in an underwater ocean diorama?	How can I follow my plan to create an underwater ocean diorama?	How can I use symmetry to help me make a salt dough starfish sculpture?	How can I use close observation to recreate the patterns and colours of fish?	How can I use papier maché to create a 3D fish sculpture?	How can I use my knowledge of the colour and pattern of fish to decorate my sculpture?
<b>IT &amp; COMPUTING</b>	When is it helpful to work collaboratively on a wiki or online document?	What are the ground rules for working with a partner on a wiki or online document?	How can I work with a partner to create a wiki or online document about an ocean habitat? (1)	How can I work with a partner to create a wiki or online document about an ocean habitat? (2)	How can we add images, captions and web links to our wiki or online document?	How can we evaluate our project? How can we act on feedback to improve it?
<b>PE</b>	Dance: How can I recreate the movements of the ocean and the creatures that live in it?	Dance: How can I work as a group to create a sequence of ocean-inspired movements? (moving in unison)	Dance: How can I work as a group to create a sequence of ocean-inspired movements? (moving in canon)	Dance: What movements will we use to create an underwater dance?	Dance: How can we refine our dance to fit in time with music?	Dance: How can we evaluate our own dance and the dances of others?
<b>NOTES</b>	Whole-class reading of ocean adventure story e.g. <i>Kensuke's Kingdom</i>	Whole-class reading of ocean adventure story e.g. <i>Kensuke's Kingdom</i>	Whole-class reading of ocean adventure story e.g. <i>Kensuke's Kingdom</i>	Billingsgate Seafood School outreach workshop	Children to bring in newspaper for papier maché art project	GREAT WORK 'Ted Talks' on reducing ocean pollution

† *Kensuke's Kingdom* by Michael Morpurgo works well as the stimulus for this writing project