

# Key Stage 2

## Curriculum Fit



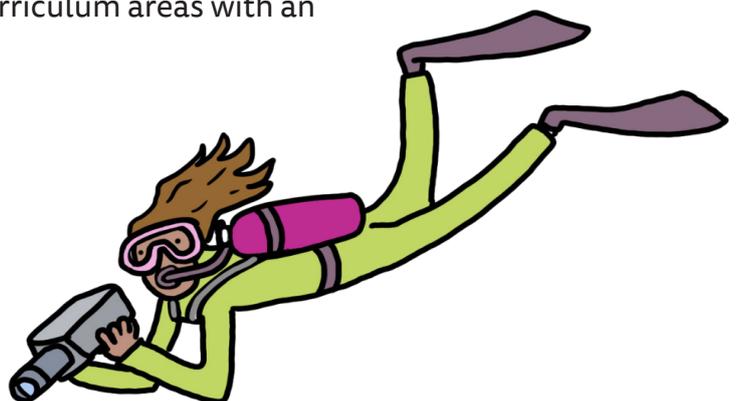
## Making Waves: Inventing for a better ocean

### Learning Opportunities and Objectives

Little Inventors provides great opportunities for students to develop their creative and problem solving skills. Additionally:

- To understand that inventions are all around us, that invention is a way to create solutions to problems or challenges
- Students will learn about the five oceans and that all oceans are connected
- They will learn why we are dependant on the ocean
- Discovering a brief history of maritime and invention
- Learn about climate change and its impacts on humans and the ocean
- They will be introduced to renewable energy and non renewable energy and problems around fossil fuels
- Discuss the impacts of travel and transportation on the environment
- To articulate and communicate their ideas in drawing, writing and speech for an audience, as well as to plan and evaluate their writing
- Expand skills in STEM learning
- Become innovative designers through use of a deliberate design process for generating ideas

By promoting creative thinking and problem-solving skills, Little Inventors offers many opportunities to link to several curriculum areas with an integrated approach.



## Curriculum links

The topic has cross-curricular links to a variety of objectives, including:

### Geography

Students will learn about the location and characteristics of a range of the world's most significant physical ocean features. They can:

- Name and locate the five oceans
- Identify key key topographical features of the ocean
- Be introduced to human geography, including: the distribution of natural resources including energy, food, minerals and water

### Science

Students can base their invention ideas on observations of the world around them that present opportunities for innovation. They can:

- Learn that environments can change and that this can sometimes pose dangers to living things
- Introduced to fossil fuels and energy sources
- Students can learn about the sustainability of different forms of power and how to reduce their impact on the environment
- Ask relevant questions and using different types of scientific enquiries to answer them
- Gather, record, classify and present data in a variety of ways to help in answering questions
- Record findings using simple scientific language, drawings and labelled diagrams

### Citizenship

Students can learn to take some responsibility for themselves and their environment

They can:

- Understanding environmental issues
- To realise that people and other living things have needs, and that they have responsibilities to meet them
- What improves and harms their local, natural and built environments and about some of the ways people look after them

## English and Literacy

Students can write both descriptively and persuasively. They can plan and evaluate their writing and communicate their ideas in speech. They can:

- Use language to represent their idea
- Write clearly, accurately and coherently, adapting their language and style in and for a range of contexts, purposes and audiences
- Use discussion in order to learn
- Elaborate and explain clearly their understanding and ideas

## Art and design

Students can produce creative work and explore their ideas using drawing, design and optionally craft. They can:

- Use drawing to develop and share their ideas, experiences and imagination
- Optionally, use a range of materials creatively to design and make products
- Be exposed to the work of craft makers and designers

