

Key Stage 2

Curriculum Fit



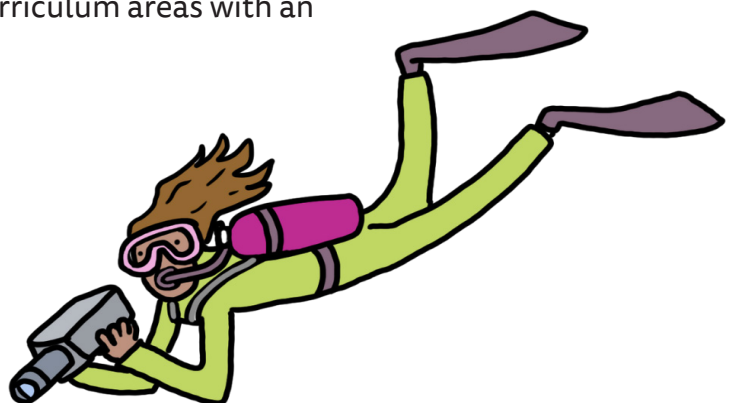
Making Waves: Inventing for a better ocean

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 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

