

Learning objectives

Common Seas has worked with partners to create a set of universal Ocean Plastics Learning Objectives, utilising the frameworks developed by UNESCO and those working for Ocean Literacy. These learning objectives are listed below and are subscribed to by Common Seas Ocean Plastics Academy partners. We hope that these overarching learning objectives are useful to other individuals and organisations planning their own education programming to help a plastic waste free future.

Oceans for beginners 5-7 Ocean Plastics learning objective	Lessons		
	1	2	3
<p>Cognitive learning objectives</p> <ul style="list-style-type: none"> • The learner understands the fundamental properties of plastics, including the use of additives. • The learner understands the scope and geographical scale of plastic use and plastic pollution historically as well as current predictions. • The learner understands the pathways through which plastics enter the ocean and marine life. • The learner understands the social, environmental and economic cost of plastics across its entire life cycle. • The learner can identify and evaluate ways to improve the sustainability of plastics at different stages of the product life cycle¹. 			✓
<p>Socio-emotional learning objectives</p> <ul style="list-style-type: none"> • The learner can reflect on their own use of plastics, and how this use might affect the marine environment. • The learner actively seeks alternative designs, behaviours and practices that reduce their contribution to plastic pollution. • The learner can communicate the societal and environmental impacts of plastic use, referring to the scientific evidence base. • The learner is able to influence the behaviours and practices of others in their community in terms of plastic use and management. • The learner can collaborate at a range of scales to campaign for the reduction of plastic pollution. 			✓
<p>Behavioural learning objectives</p> <ul style="list-style-type: none"> • The learner is able to access and improve waste management systems in their local area. • The learner can plan and implement campaigns that lead to a reduction in plastic pollution at a range of scales. • The learner is able to evaluate media narratives about plastic pollution and present a balanced judgement to their peers. • The learner is able to make informed decisions as a consumer to reduce plastic pollution. • The learner is able to research different approaches to design, including circularity and biomimicry. 			

¹ Including improved design, alternative materials, waste management and individual behaviour.

Applicable standards

National Curriculum for England

KS1 Science	Lessons		
	1	2	3
Element of the curriculum			
Living things and their habitats			
• Identify and name a variety of plants and animals in their habitats.	✓	✓	✓
• Identify and name a variety of common animals.	✓	✓	✓
• Identify that most living things live in habitats to which they are suited and describe how different habitats provide for the basic needs of different kinds of animals and plants, and how they depend on each other.	✓	✓	✓
• Describe how animals obtain their food from plants and other animals.	✓	✓	✓
Working scientifically			
• Ask simple questions and recognise that they can be answered in different ways.	✓	✓	✓
• Use observations and ideas to suggest answers to questions.	✓	✓	✓

SCHEME OF WORK

Lesson 1: Our wonderful oceans 5-7

Overview

This lesson introduces students to the marine habitat and the wealth and diversity of life found in the ocean.

Students will learn about different ocean zones, play a game of marine snap and study some iconic marine species.

Learning outcomes

- Name a variety of marine species
- Understand the scale of the ocean and the species that live there
- Identify features of living things
- Record and present findings
- Ask questions and reflect on learning

Resources



Slideshow 1:
Our wonderful ocean



Student Sheet 1a:
Marine snap

Student Sheet 1b:
Marine icons facts

Student Sheet 1c:
Marine icon poster



Gallery:
Living reef

Gallery:
Deep sea creatures

Gallery:
The Great Barrier Reef



Diagram:
Deep ocean poster

Lesson 2: Our oceans and us 5-7

Overview

Students will learn about and reflect on different ecosystem goods and services provided by the ocean through a quiz. Followed by a group task to create a diorama demonstrating how symbiotic our relationship with the ocean is.

Learning outcomes

- Understand how we rely on the oceans
- Give examples of what we get from the ocean
- Use knowledge and understanding to plan a group project
- Justify and explain choices

Resources



Slideshow 2:
Our ocean and us



Activity Overview 2a:
Diorama



Student Sheet 2a:
Diorama backdrop



Thinglink:
Using our seas interactive

Lesson 3: Our ocean in crisis 5-7

Overview

Students are introduced to some facts about marine plastics pollution. Students then find out about an 'Ocean hero' and record facts about them and finally reflect on what they can do to make a difference.

Learning outcomes

- Understand facts about plastics pollution
- Research an 'Ocean hero'
- Draw pictures and write about a significant person
- Present work to an audience

Resources



Slideshow 3:
Our ocean in crisis



Student Sheet 3a:
Ocean hero portrait