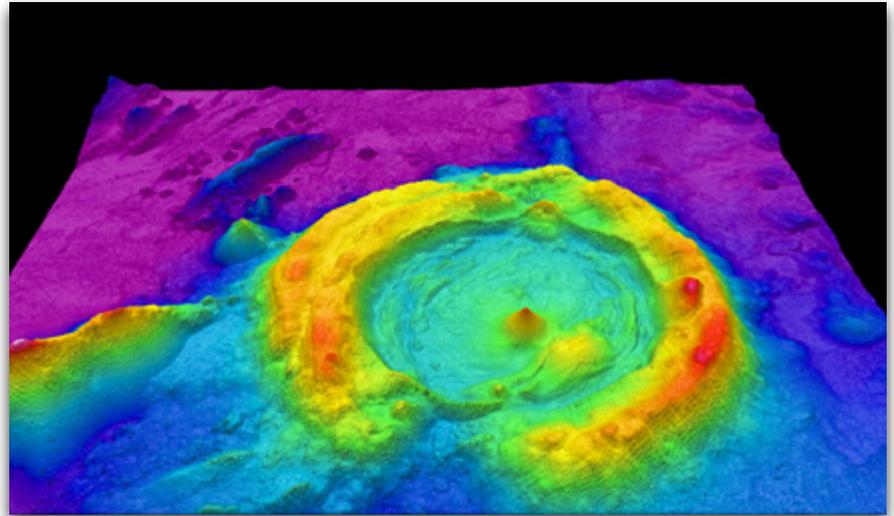


# Discover the Deep

## Second Level

This learning pathway takes you down into the depths of our ocean to learn about the deep sea. You will explore different habitats and discover how animals are adapted to extreme conditions, as well as how we study the deep sea and what threats it's facing.



*Lidar map showing the sea floor  
Image Credit: NOAA Ocean Exploration & Research*

## Learning Outcomes

As I listen or watch, I can identify and discuss the purpose, main ideas and supporting detail contained within the text, and use this information for different purposes.

### **LIT 2-04a**

I can explain how different methods can be used to find the perimeter and area of a simple 2D shape or volume of a simple 3D object.

### **MNU 2-11c**

I can identify and classify examples of living things, past and present, to help me appreciate their diversity. I can relate physical and behavioural characteristics to their survival or extinction.

### **SCN 2-04b**

Having explored some of the substances that make up Earth's surface, I can compare some of their characteristics and uses.

### **SCN 2-17a**

I can discuss the environmental impact of human activity and suggest ways in which we can live in a more environmentally responsible way.

### **SOC 2-08a**

I can extend and enhance my design skills to solve problems and can construct models.

### **TCH 2-09a**

I can extend my knowledge and understanding of engineering disciplines to create solutions.

### **TCH 2-12a**

## 1. The Challenger Deep

Read all about the deepest part of our ocean known as The Challenger Deep.

Watch a video to discover how deep our oceans really are.

Work out how far away the deepest part of the ocean is from your school.

## 2. Habitats of the Deep

Take a swim around a Deep-Sea Coral Reef with a Video of Rockall Bank, West of Scotland.

Uncover what animals live in the Cold Water Coral Reefs off the coast of Scotland by carrying out a Coral Reef Survey.

Make your own Hydrothermal Vent using plasticine and then watch it fizz underwater.

## 3. Adaptations in the Deep

Meet some of the animals that live in the deep sea and read about how they are adapted to the harsh conditions.

Investigate the effects of the extreme water pressure in the deep sea.

Find out how deep sea creatures are adapted to a life in total darkness.

## 4. Studying the Deep

Travel through a timeline of deep sea discoveries from the 1800s to present day.

Dive down and map the ocean floor with Monterey Bay Aquarium Research Institute.

Create your own submersible using Lego to send down into the depths of the ocean.

## 5. Threats to the Deep

Discover what threats Cold Water Coral Reefs are facing.

Learn all about Ocean Acidification with hands-on experiments.

Try and catch as many fish as you can without damaging the habitat in the Tricky Trawler game.