

Date	Class level First and Second	Subject Geography
Strand Human Environments	Strand Unit People Living and Working in the Local area	
Title Learn about an Oceanographer that works in the local community		
Objective(s) The aim of the lesson plan is for children investigate the work of people in a range of locations in the locality. The students will become familiar with the range of different work oceanographers do.		
Skills Required Questioning, Recording and Communicating.		
<p>Learning objectives</p> <p>The child will be enabled to:</p> <p>Examine in depth a photograph of an oceanographer and guess from evidence in the photo what the person may do.</p> <p>Learn about the job of an oceanographer through a teacher directed approach.</p> <p>Conduct an interview with an oceanographer via skype or alternatively through a teacher in role activity.</p>	<p>Learning activities</p> <p>Talk and Discussion: Explain to the class that we are going to learn about the work of someone in the locality but the children will need to guess what that job is.</p> <p>Photos and Artefacts: Display a picture of an oceanographer at work. Other marine related jobs could be substituted here such as fish farmer, fisherman, marine scientist, ocean engineer or scuba diver. Give the children some questions to prompt them as to what the person may be doing. Get them to consider the background of the photo (at sea), activity that the person appears to be undertaking, clothes that they are wearing etc.</p> <p>Talk and Discussion: Explain to the children that this person is an oceanographer. Explain that an oceanographer is someone who helps us gain a better understanding of the world's oceans.</p> <p>This is a huge task as the earth's surface is covered by more water than land.</p>	

	<p>These oceanographers may look at the ocean as a whole or study the creatures that live in the ocean.</p> <p>They may also use special machines to conduct experiments in the ocean.</p> <p>For a good guide to being/becoming an oceanographer and other marine jobs see “Oceans of Opportunity” published by the Marine Institute. Search for the term “Marine Institute Oceans of Opportunity” to download a free copy online.</p> <p>Extension Activity: If your classroom has a Skype facility it would be a hugely beneficial task to arrange a call with a local oceanographer or marine biologist. The children could prepare questions and interview the person.</p> <p>If this is unavailable to you, a teacher in role activity could be used whereby the teacher assumes the role of an oceanographer and answers questions posed by the class.</p> <p>Resources</p> <p>Photographs (attached)</p> <p>Skype Facility</p> <p>Indicator for teacher in role (snorkel mask)</p>
<p>Differentiation Explore and Investigate especially through practical studies one or more of the important economic activities of people in the locality and in a contrasting part of Ireland.</p>	
<p>Assessment Teacher Observation and Questioning</p>	
<p>Linkage and Integration Drama: Teacher in role Oral language: The pupils must generate questions to ask the oceanographer.</p>	

Photos of Oceanographers



Image 1: Oceanographers at the Marine Institute work on the weather buoys which are located around Ireland.

They use the buoys to collect information about the weather and the ocean – such as the movement and height of the waves as well as the temperature of the oceans.



Image 2: An oceanographer may work as a marine scientist who studies marine biology. Marine scientists or a Marine biologist study animals that live in the ocean. Marine scientists can work on large research vessels such as the RV *Celtic Explorer* to study the fish that live in the ocean. They can work in the wet lab on the research vessel to conduct their research. They can also work in an office (on land) where they write and talk with lots of people (such as fishermen, other scientists, students and the public) about the animals they are studying.



Explorers Education Programme



Images 3: Marine scientists use the Remotely Operated Vehicle (ROV) *Holland 1* to learn about the animals and environment under the ocean. It is attached the Research Vessel *RV Celtic Explorer* with a very long “umbilical” cord and is controlled remotely from the vessel – just like using a remote on a game. The pilot can move the ROV around under the water and can also take samples using its arms and pincers. Marine scientists will then study the samples while they are back in the laboratories.