

# The Blue Fish Campaign

## LESSON 3: IMPACTS OF POLLUTION ON FOOD CHAINS 🍏



Cross Curricular Links	Curriculum Objectives 2014 National Curriculum	Learning Intentions	Teaching Notes	Teaching Resources	Assessment Opportunities
<p><b>English</b> Use discussion and conversation to explore and speculate about new ideas.</p> <p><b>Geographical Skills and Fieldwork</b> Use fieldwork to observe, measure, record and present the human and physical features in the local area using maps, plans and graphs.</p>	<p><b>Science</b></p> <p><b>Living Things and Their Habitats</b></p> <ul style="list-style-type: none"> <li>Recognising environments can change and that this can sometimes pose dangers to living things.</li> <li>Pupils should explore examples of human impact (both positive and negative) on environments, for example, the positive effects of nature reserves, ecologically planned parks, or garden ponds, and the negative effects of population and development, litter or deforestation.</li> </ul> <p><b>Animals Including Humans</b></p> <ul style="list-style-type: none"> <li>Construct a variety of food chains to show producers, predators and prey.</li> </ul>	Do I understand what a food chain is?	Using PowerPoint 3 and the presentation script; discuss the topic of food chains, especially animals that are connected in water body food chains e.g. rivers, ponds and the sea.	<b>PowerPoint 3</b> Impacts of Pollution	
		Can I identify different parts of a food chain found in a river, stream or pond?	Using the Activity 6 worksheets: Food Chain Flashcards, let the students create their own food chains starting with plant producers, moving through insects and small fish consumers, up to tertiary predators.	<b>Activity 6</b> Food Chain Flashcards	Children can put together their own aquatic food chain, from producers to predators.
		Can I recognise the threats of pollution for wildlife in water habitats?	Talk about what happens when food chains are interrupted. Ask the children to guess ways in which food chains could be disrupted in rivers, streams and ponds. Explain that if the insects are lost from the food chain then the fish will have no food.	<b>Activity 7</b> Pollution Chain Flashcards	Children can successfully identify pollution sources and understand they have negative impacts on wildlife.
			Get the children to think back to PowerPoint 2 where you discussed different types of pollution.		

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			<p>Show the children photographs in presentation 2 of pollution in water affected by different pollution sources, including factory waste, oil and litter.</p> <p>Using the Activity 7 worksheets: Pollution Chain Flashcards, let the children create their own pollution food chains.</p>		
		<p>Am I able to visualise the negative impacts of water pollution?</p>	<p>The Pond Pollution Tank is an interactive activity which will allow the students to understand the consequences of pollution for animals living in water environments.</p> <p>Use the Activity 8 worksheet to complete this task.</p> <ul style="list-style-type: none"> <li>• Use this leaflet to explain the negative impact of each type of pollutant has on aquatic life. <a href="https://www.gov.je/SiteCollectionDocuments/Environment%20and%20greener%20living/ID_Blue%20Fish%20Leaflet.pdf">https://www.gov.je/SiteCollectionDocuments/Environment%20and%20greener%20living/ID_Blue%20Fish%20Leaflet.pdf</a></li> <li>• It should be more difficult to see the fish in the water due to all the 'pollutants' add by the students.</li> <li>• Ask if any of the children would like to swim in water looking like this? (Hopefully they say no!) Explain that if you do not want to swim in water like this, why should the fish have to!</li> <li>• Note: Once finished with the activity, dispose of the litter by binning it. Pour the water down a sink so not to pollute any drains!</li> </ul>	<p><b>Activity 8</b> Pond Pollution Tank</p>	<p>Children recognise the impacts of water pollution.</p>



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		<p>Can I demonstrate the knowledge I have learnt during the Blue Fish lessons?</p>	<p>Once you have completed all the activities, test the children's knowledge by taking the Blue Fish quiz, using the Activity 9 worksheet.</p>	<p><b>Activity 9</b> Blue Fish Quiz</p>	<p>Children are able to correctly complete the Blue Fish quiz.</p>

