

Scientists and Inventors: Rachel Carson

<p>Aim: To describe how animals obtain their food from plants and other animals, using the idea of a simple food chain in the context of exploring Rachel Carson's study of the ocean.</p> <p>I can describe what Rachel Carson learnt about ocean habitats.</p> <p>To observe closely, using simple equipment in the context of investigating the effects of pesticides in water, as researched by Rachel Carson.</p> <p>I can investigate Rachel Carson's findings on water pollution.</p>	<p>Success Criteria:</p> <p>I can give facts about Rachel Carson.</p> <p>I can describe a food chain in the habitat she studied.</p> <p>I can give 1 reason why it is important to keep oceans clean.</p> <p>I can collect samples of water.</p> <p>I can record my results in pictures.</p> <p>I can note differences between the samples I have collected.</p> <p>I can explain my results.</p>	<p>Resources: Lesson Pack</p> <p>Additional adults - as required</p> <p>Deep tray – 1 per group</p> <p>Gravel</p> <p>Water</p> <p>3 small plastic houses or bricks - per group</p> <p>Water spray – 1 per group</p> <p>Pipette – 1 per group</p> <p>3 clear cups or beakers - per group</p> <p>3 colours of sugar sprinkles - per group</p>
<p>Key/New Words: Rachel Carson, ocean, habitat, food chain, chemicals, pesticide, pollution.</p>	<p>Preparation: Rachel Carson Fact Files – 1 per child, as described in the Learning Sequence below</p> <p>Differentiated Water Pollution Activity Sheet – 1 per child</p>	

Prior Learning: It will be helpful if children have previously learnt about habitats and food chains. This lesson would also work well with the 'Living Things and Their Habitats' unit of work.

Learning Sequence

	<p>Who Was Rachel Carson? Use the 2 slides on the Lesson Presentation to explain the activity. Children use the Rachel Carson Fact Files to find out more about her life. Fact File 1 includes 3 facts and Fact File 2 includes 3 different facts. Give each partner in a pair a different fact file. Children use the questions on their fact files to fill in their missing facts. Look for children who can collect facts about Rachel Carson.</p>	
	<p>Ocean Habitats: Use the 2 slides on the Lesson Presentation to describe Rachel Carson's study of the ocean habitats, and the importance of her work.</p>	
	<p>Ocean Food Chain: As a class, complete the ocean food chain shown on the Lesson Presentation. Children discuss the order of the animals, then take turns to click a box on the Lesson Presentation to see if their ideas are correct. The correct animals will appear in the boxes as the children click on them. Look for children who can successfully order a food chain.</p>	
	<p>Rachel's Research: Use the 2 slides on the Lesson Presentation to explain Rachel Carson's research into the use of pesticides and their effects on oceans and the things that live in them.</p>	
	<p>Water Pollution Experiment: In groups, children carry out the water pollution experiment described on the 4 slides of the Lesson Presentation. (You may wish to have an adult work with each group.) Look for children who are able to participate in the experiment, and understand how it represents our world.</p>	
	<p>Describe Your Results: Children use the differentiated Water Pollution Activity Sheet to record their results and explain what they show. Look for children who can explain their results.</p> <div style="display: flex; justify-content: space-around;"> <div data-bbox="215 1603 574 1794">  <p>Children complete the pictures to describe their results. They use the word bank to complete the sentences explaining their results.</p> </div> <div data-bbox="614 1603 973 1794">  <p>Children complete the pictures to describe their results.. They use the word bank to write their explanation.</p> </div> <div data-bbox="1013 1603 1372 1794">  <p>Children draw a picture to show their results. They write their own explanation.</p> </div> </div>	
	<p>Protect Our Oceans: Children discuss why it is important to keep the world's oceans clean.</p>	

Taskit

Orderit: Use this **Sorting Activity** to put the pictures of sea creatures in order on the blank food chain.

Answerit: Try this **Quiz** on the oceans of the world!