



Science

Scientists and Inventors

Rachel Carson



Aim

Monday 23rd November

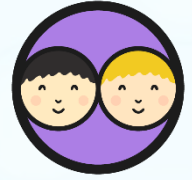
WALT: describe what Rachel Carson learnt about ocean habitats.

investigate Rachel Carson's findings on water pollution.

Success Criteria

- I can give facts about Rachel Carson.
- I can describe a food chain in the habitat she studied.
- I can collect samples of water.
- I can record my results in pictures.
- I can note differences between the samples I have collected.
- I can explain my results.

Who Was Rachel Carson?



Rachel Carson was an American scientist who studied the ocean and the environment. She was born in 1907 and died in 1964.

Click on the link to find out about Rachel and why she became famous.

https://www.youtube.com/watch?v=eq_eWZM6IWQ

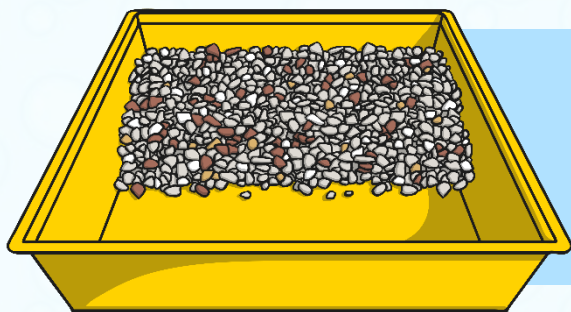


Water Pollution Experiment

Try this at home if you can!

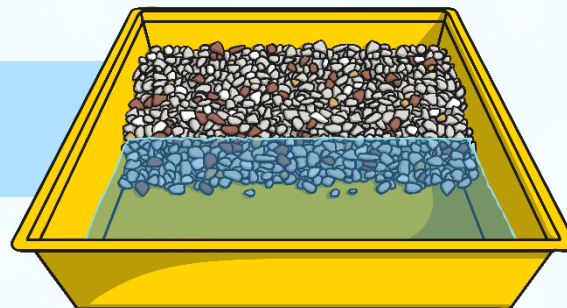
Rachel Carson found that chemicals sprayed on farms and gardens could get into the ocean.

You are going to do an experiment to prove how this happens.

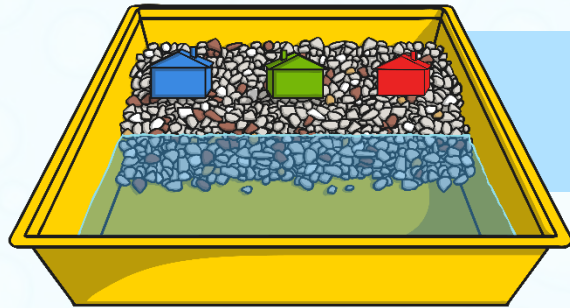


First, you need to set up a small world in a tray. Use gravel or something similar for the ground and small toys for the farms and houses. Push the gravel up so that it makes a hill, with space at one side of the tray.

Then add some water to the tray. It will create an 'ocean' at one side of the tray.

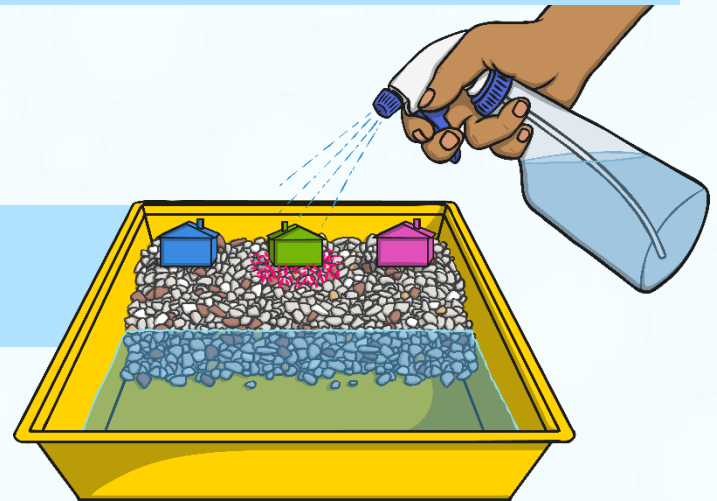


Water Pollution Experiment

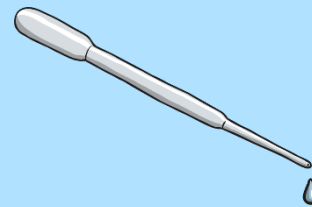


Next, place three small toys on the gravel hill to represent houses or farms.

Use a spray bottle or something similar to make it rain on the small world!



Collect some fresh water from the ocean using a pipette or small glass. Keep this water sample in a clear container.



Water Pollution Experiment

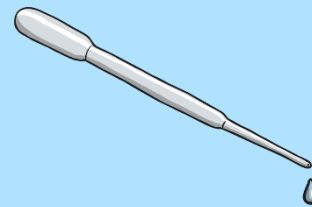


Imagine that a farmer wants to spray his farm with a pesticide.

Shake one colour of sprinkles, glitter or something similar over his farm to represent pesticides.



Collect another water sample and place it in a clear container. What do you notice about this water sample?

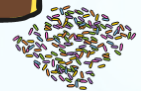


Water Pollution Experiment



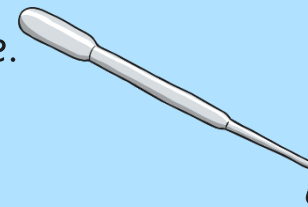
Now imagine that another farmer wants to spray a different pesticide on her farm, and the homeowners want to spray fertiliser onto their grass.

Shake two more colours of sprinkles/glitter, or more of the same colour onto a farm and a house.

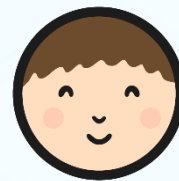


Make it rain again, and collect another water sample.

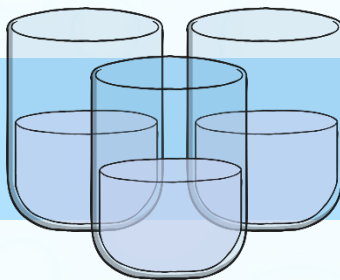
What do you notice about this water sample?



Describe Your Results

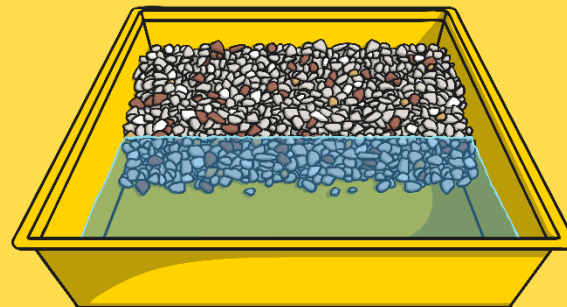


You have collected
three water samples.



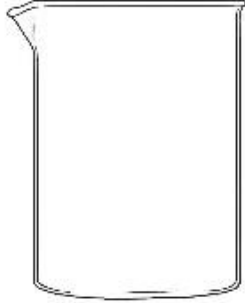
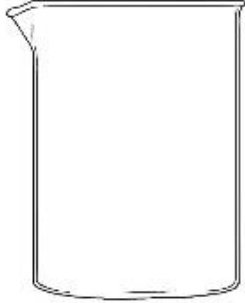
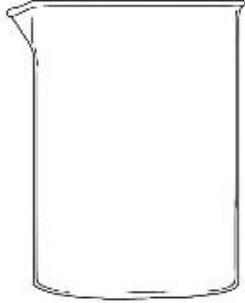
What do you notice about each one?

What does this show about how
chemicals can get into the ocean?



Draw a picture to show your results, and explain what you noticed about how chemicals get into the ocean using the sentences on the sheet below.



Draw a picture of the water samples you collected.



Water sample 1	Water sample 2	Water sample 3
		

What did you notice about the water you collected?

Why do you think this happened?

What does this tell us about how chemicals get into the ocean?

colour change clear  rain 

wash chemicals  ground  ocean 