

Connected Learning Team Primary

Year 2

Science Package

Water pollution

Make a water filter

2 weeks

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Year 2 Science		
Earth and Space Sciences: Earth's resources are used in a variety of ways (ACSSU032). Use and Influence of Science: People use science in their daily lives, including when caring for the environment and living things (ACSHE035).		
Prior learning	*Exposure to mixing different liquids with water *Understands some things float and sink. *Understands we need to look after the environment to keep it and ourselves healthy.	
Week 1	WALT What I'm Learning Today	WILF What I'm Looking For
	I am learning about the effect of water pollution on animals.	I can identify the pollutants. I can investigate how to clean the water.
Instructions		Resources
1. Share the WALT and WILF with the student for today's learning. 2. If possible, go for a walk around a park or at the beach, observing the rubbish and pollution. You might like to take some gloves and a bag to collect the rubbish in. Ask: why is pollution bad for the environment? 3. Share with the student that rubbish is man-made and often contains		Optional: gloves and rubbish bag Worksheet Tube of water Sponge cut into fish shapes Oil Dirt Detergent Glitter (optional)

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<p>chemicals. When the rubbish is left in the environment, the chemicals leak into the ground and moves down into ground water and water ways. When this happens it makes the water unhealthy and the animals in/ around it sick.</p> <ol style="list-style-type: none">4. Fill up a tube with water. Then put some oil, dirt, detergent and glitter into the water and tell the student that we are pretending this is rubbish and pollution.5. Put the sponge fish into the water and swish the bucket around a little bit.6. Pull the fish out of the water. Ask: what has happened to the fish? (You are expecting to student to say that it has the oil/glitter/detergent on it. Share with the student that this is what pollution does, it hurts the animals and they don't always survive).	<p>Sieve Tea towels Sponges Buckets Towels</p>
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7. Ask: what could we do to help the fish and other animals? Record the student's ideas.
8. If possible, let the student explore how they could clean the water. This might include using a sieve, tea towels, sponges and buckets. Note: this may get messy so have some towels ready.
9. Once the student has helped to clean up and hands have been washed thoroughly, share the worksheet with them. Get the student to draw a picture of how they tried to clean the water.
10. Review the WALT and WILF.
11. Complete the reflection.

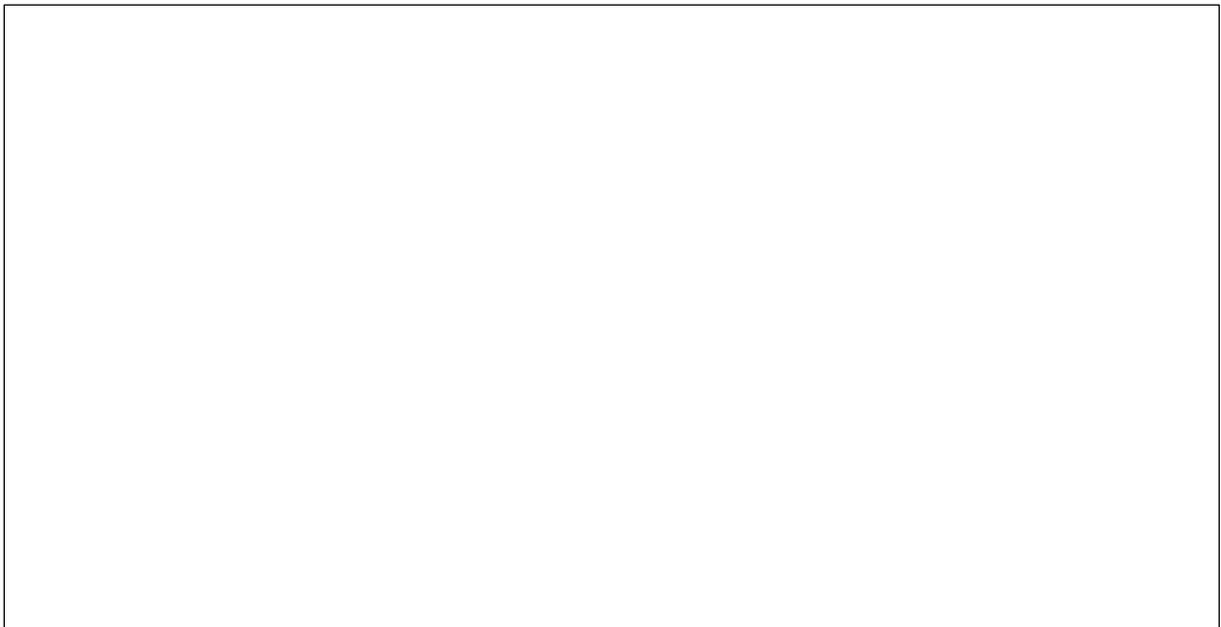
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Water Pollution

What could we do to help the fish and other animals?
(parent to record if needed)



Draw a picture of how you cleaned the water.



Colour the face in for how your learning went during this task:



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Week 2	WALT What I'm Learning Today	WILF What I'm Looking For
	I am learning how water can be filtered.	I can investigate how a water filter works. I can observe the effects of the filter.
Instructions		Resources
<ol style="list-style-type: none">1. Review the learning from last lesson.2. Share the WALT and WILF for today's learning with the student.3. Explain that we filter water to help make it cleaner and healthier. If you have a water filter jug, show this to the student. We are going to make a simple water filter so we can see how it is able to clean water.4. Follow the instructions of the work sheet to make the water cycle.5. Before students complete the reflection, review the WALT and WILF.		Water filter jug (optional) Water bottle with lid (pop top if possible) Fly wire or coffee filter paper or paper towel. Sand Gravel Sponge Cup of muddy water Clean cup

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How to make a Water Filter

Materials needed	
<p>*Water bottle with lid (pop top if possible)</p> <p>*Fly wire <u>or</u> coffee filter paper <u>or</u> paper towel (cut into a circle to fit into the bottle)</p> 	<p>*Gravel (can be fish tank gravel)</p> <p>*Sponge (cut onto a circle to fit into the bottle)</p> <p>*Cup of muddy water</p> <p>*Clean cup</p> <p>*Sand</p> <p>*Tablespoon</p>
<p>Steps</p>	<ol style="list-style-type: none">1. Cut to end off the water bottle.2. Put in the coffee filter or fly wire in the bottle all the way pushed down to the cap.3. Pour in a heaped spoonful of sand.4. Pour in a heaped spoonful of gravel.5. Position the bottle on top of a clean cup.6. Pour the muddy water into the bottle (you are pouring it onto the gravel).  

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7. Let the bottle sit for a while so the water moves through the layers.

8. Open the pop top and let the water pour into the clean cup.

9. What do you notice?



Draw a picture of your water filter.

Describe the water that came out of the bottle.

What did the materials do to the water?

Reflection

Review the WALT and WILF. What did you learn today?

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