**Fabulous Filtration**

**Name: Class:**

We all need water to survive.

List some of the ways we use water every day.

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Unfortunately, lots of the water we use is getting **polluted**!

What do you think pollution means?

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What problems does water pollution cause? Look at the pictures for clues.





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***ACTIVITY***

**How can you make water clean?**

We can make a filter to clean some of the pollution out of water.

These are the materials you will need.

* 2 l Coke or similar bottle (recycled please)
* Gravel
* Sand
* Serviettes/coffee filters
* Cotton wool
* pollution substitute (sand, food waste, bits of plastic, food colouring, cooking oil, spice etc.)

You will be using the design process to make your filter.

**Investigate**

Why do we need to clean water?

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**Design**

Using the materials supplied above, design the water filter best suited to cleaning pollution out of water. Draw your filter in the box below, remember to label it clearly.

**Make**

It is time to make and test your filter system. To make “polluted” water, mix water with sand, leaves, some food colouring, tiny pieces of plastic and paper and a bit of oil.

Draw a picture of your water before it goes in the filter.



Draw a picture of your water after it goes through the filter.



**Evaluate**

Did the filter help clean your water?

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Would you drink this water? Why?

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How could you change in your filter to make it more efficient?

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**Communicate**

Write down all the steps needed to make your filter.

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