

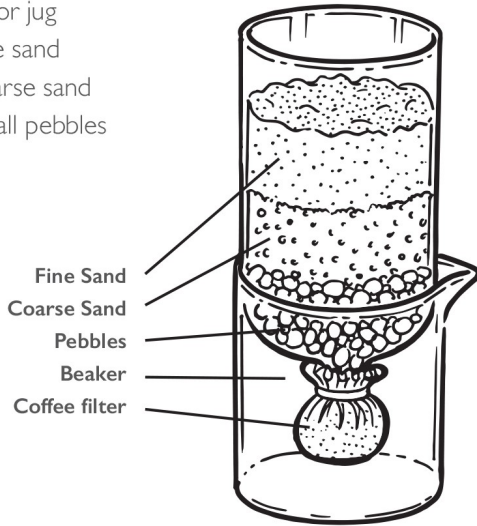
# Activity S.2

## Water Filter



### You will need:

- 2L of dirty water
- 2L plastic soft drink bottle with bottom cut off
- 1 large beaker or jug
- 1 cup clean fine sand
- 1 cup clean coarse sand
- 1 cup clean small pebbles
- 1 coffee filter
- 1 rubber band



### Method:

1. Attach the coffee filter to the outside neck of the bottle with a rubber band
2. Turn the bottle upside down and place in the large beaker or jug
3. Pour a layer of pebbles into the bottle (the coffee filter will stop the pebbles from falling out).
4. Pour the coarse sand on top of the pebbles.
5. Pour the fine sand on top of the coarse sand.
6. Carefully, pour **dirty** (unfiltered) water into the bottle, collecting filtered water passing through the bottle in large beaker
7. Compare filtered water to unfiltered water – are they the same or different? Explain? Record what happens to the water after it passes through the filter.

**Before** you start... PREDICT what you think is going to happen

I think that:	Because:
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**During** your experiment.....record what you OBSERVE is happening

I observed:.....

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**When** you've finished your experiment... EXPLAIN what you think has happened and why

I think this happened:.....

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because:.....

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**\*NOTE: do NOT drink the filtered water, it is still not safe to drink. Filtration is only PART of the water treatment process**