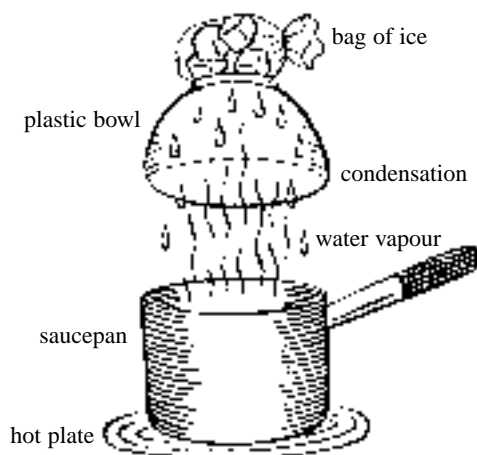


WATER CYCLE ACTIVITY FIVE

This experiment shows how evaporation works and how the water cycle is able to clean water. You will need a saucepan of water, oven glove, stove top or hotplate, food colouring, clear plastic bowl, ice cubes in a plastic bag, teaspoon.

Only do this experiment using approved safety precautions and with supervision by your teacher.

1. Fill the saucepan with water (about 5cm from the top) and bring it to the boil on the stove top or hotplate
2. Put on the oven glove (this will help to protect you from being burned by steam)
3. When the water starts to boil, hold the plastic bowl upside down over the saucepan. This will catch the rising water vapour (steam)
4. Sit the bag of ice cubes on top of the plastic bowl. This will help condense the water vapour back into water



5. Dry the plastic bowl and replace the ice cubes. Tip out the boiling water and replace with cold.
6. Add and mix six drops of food colouring into the saucepan of water.
7. Repeat the experiment but this time collect some drips of condensation on the teaspoon. Is it coloured?
8. Find a way to present your findings. What does this experiment show us about how the water cycle is able to clean water?
9. Finish this diagram and include it in the presentation of your work. The first one has been done for you.

This is like...

This is like...

Water on Earth which turns to water vapour (evaporates) comes from...

This is what happens when...

The heat which turns water on earth into water vapour comes from...