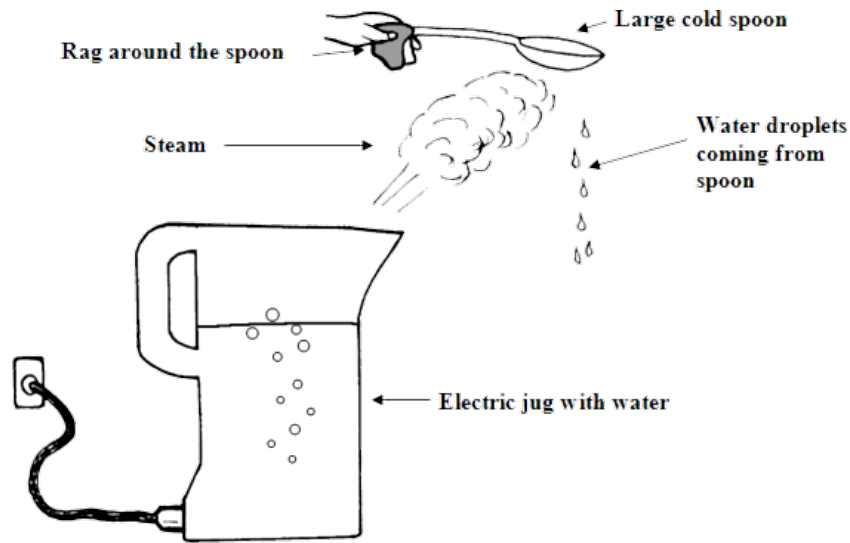


Investigating the water cycle

This task is about investigating the water cycle.

Sam was investigating the water cycle. He set up an experiment.

When the water in the jug was boiling he got a large metal spoon that had been in the freezer for an hour and put it in the steam.



a) What are the bubbles in the jug?

- The bubbles are air.
- The bubbles are heat.
- The bubbles are oxygen or hydrogen.
- The bubbles are water vapour.

b) i) Which part of the water cycle does **Water droplets from spoon** show?

- The sun
- Rain
- Oceans
- Clouds

b) ii) Which part of the water cycle does **Heating element in the jug** show?

- The sun
- Rain
- Oceans
- Clouds

b) iii) Which part of the water cycle does **Water in the jug** show?

The sun

Rain

Oceans

Clouds

c) In some ways Sam's experiment is like the real water cycle and in other ways it is different.

Think carefully about **each statement** in the chart below and choose *True*, *False* or *Don't know*.

	Experiment	Real water cycle
The water evaporates.	<i>True / False</i> <i>/ Don't know</i>	<i>True / False</i> <i>/ Don't know</i>
The water must be hot.	<i>True / False</i> <i>/ Don't know</i>	<i>True / False</i> <i>/ Don't know</i>
Rain falls in the same place where the water evaporated.	<i>True / False</i> <i>/ Don't know</i>	<i>True / False</i> <i>/ Don't know</i>
Condensation needs a cold place.	<i>True / False</i> <i>/ Don't know</i>	<i>True / False</i> <i>/ Don't know</i>
We can't always see water.	<i>True / False</i> <i>/ Don't know</i>	<i>True / False</i> <i>/ Don't know</i>

Published on Assessment Resource Banks (<https://arbs.nzcer.org.nz>)