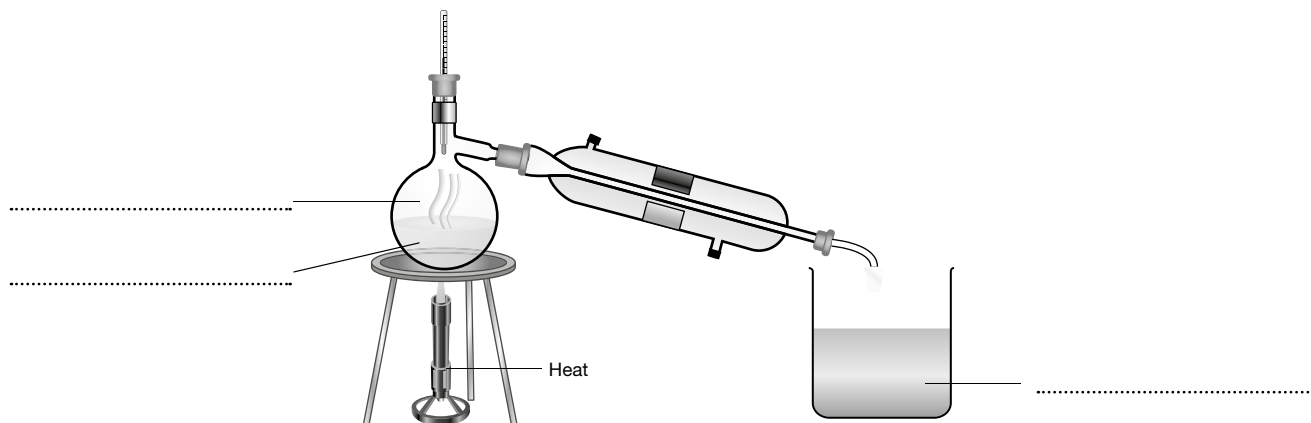


Pure substances and formulations

One way to make pure water is from salt water, using a process known as distillation, shown in the diagram below.



a Label the diagram to show (i) salt water, (ii) pure water vapour (iii) pure water. (3 marks, ★★)

b Explain how distillation allows pure water to be produced from salt water. (3 marks, ★★★)

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NAILIT!

Sometimes it is necessary to use more than one technique to test the identity and purity of a substance. What could you do to confirm that the pure water from distillation contains no sodium chloride salt?