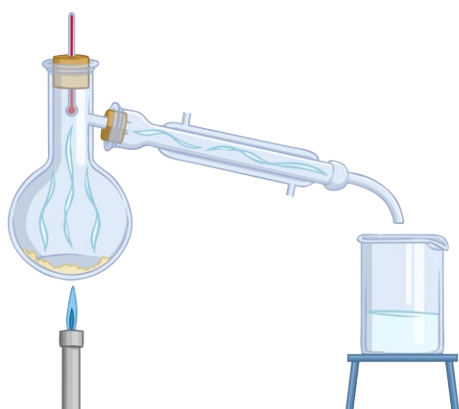
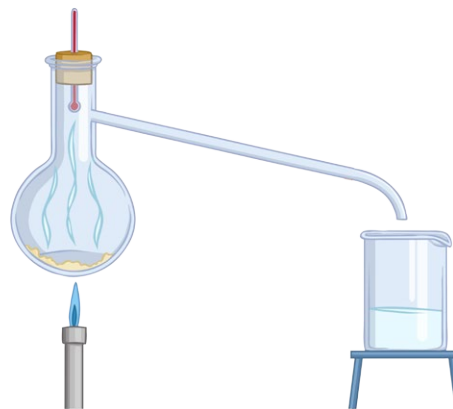


Separation Techniques Exam Style Questions 1

1. Distillation is a method that can be used to obtain drinking water from a sample of salt water. Two different examples of distillation apparatus are shown below.



A

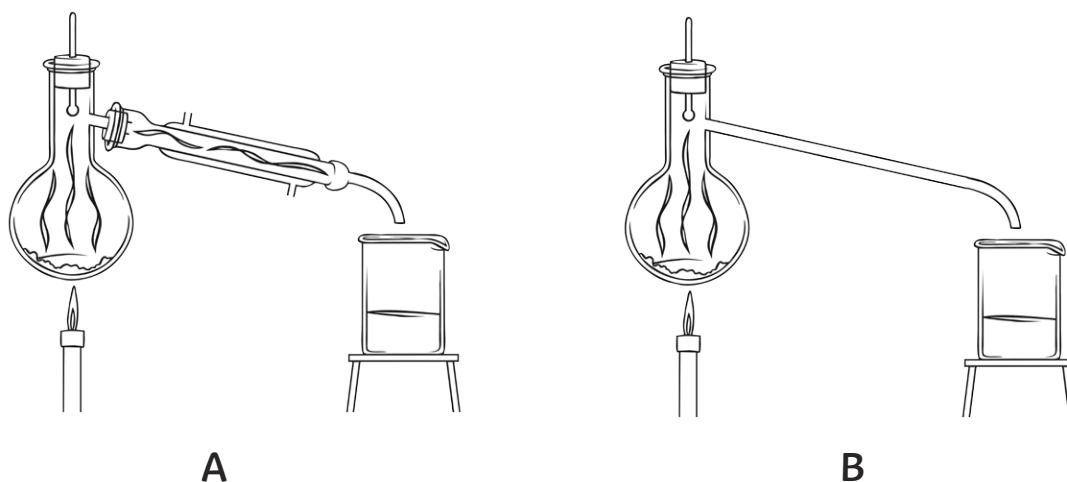


B

- Which apparatus A or B will produce the drinking water the quickest?
Give a reason for your choice.
 - Using the following key words, explain how distillation works.
Key words: boils, cools, condenses, steam.
2. In the space below, draw and label the apparatus required to separate a soluble substance from an insoluble substance.

Answers

1. Distillation is a method that can be used to obtain drinking water from a sample of salt water. Two different examples of distillation apparatus are shown below.



- Which apparatus A or B will produce the drinking water the quickest?
Give a reason for your choice.

A, the condenser will cool the steam quickly and it will collect in the conical flask.

- Using the following key words, explain how distillation works.
Key words: boils, cools, condenses, steam.

The salt water is heated until the solution boils, steam leaves the solution and as the steam travels through the condenser, the steam is cooled by the water in the condenser. The pure water drips into the conical flask.

2. In the space below, draw and label the apparatus required to separate a soluble substance from an insoluble substance.

