

Worksheet 1.7

S Distillation of liquid air

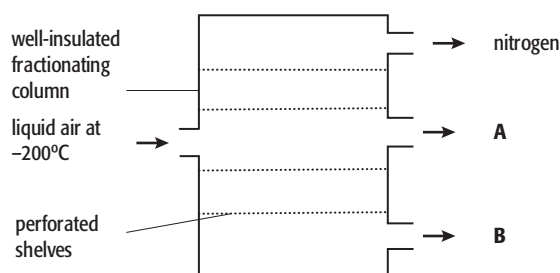
1 The table below shows the percentage and the boiling point of the three main elements in liquid air.

Element	Percentage / %	Boiling point / °C
argon		-186
nitrogen	78	-196
oxygen		-183

a Complete the table.

b Name the gas with the **highest** boiling point.

2 The following diagram shows the fractionating column for separating liquid air into argon, nitrogen and oxygen.



a Name this method of separation.

b Name gas A.

c Name gas B.

3 Name two gases which are present in the atmosphere but **not** in liquid air.

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4 Give **one** use of:

a argon

b nitrogen

S 5 Explain how oxygen is used in the steel industry.

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