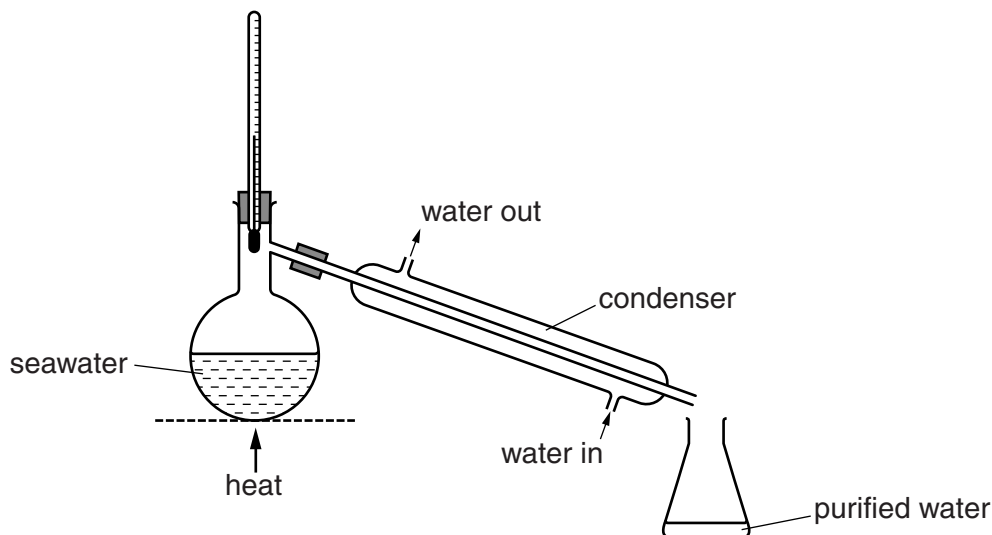


## Experimental Chemistry

Q3/P22/O/N/14

**1** Seawater contains a variety of dissolved salts.

- (a)** The diagram shows a simple distillation apparatus that can be used to produce purified water from seawater.



Explain how distillation purifies seawater.

.....  
.....  
.....  
.....[3]

- (b)** Magnesium chloride,  $\text{MgCl}_2$ , is present in seawater at a concentration of  $1.26 \text{ g/dm}^3$ .

**(i)** Write the formulae for the ions present in magnesium chloride.

.....[1]