

Part 1 Checkpoint Revision (Route A)



Matter

Step 1:

Draw the particle arrangement for each state of matter in the boxes provided and write in the changes of state that occur in the arrows shown:



Step 2:

For each state, briefly describe how their particles behave (e.g., fixed position, can flow...).

Solid:			
Liquid:			
I			
Gasi			
003			

Step 3:

Complete the table below to describe what happens to the particles during each change of state.

Change of state	The particles
melting	
boiling	





condensing	
freezing	
sublimation	

Step 4:

Describe the differences between boiling and evaporation. Use labelled particle diagrams in your answer.



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Step 5:

The diagram on the left below shows scented perfume particles. In the box on the right, draw a diagram of what the particles will look like after they have undergone diffusion (spread out through the room).



Step 6:

Gas pressure increases when a balloon is blown up. In the diagram below, the particles are missing from the inflated balloon on the right.

Fill in the missing particles on the diagram.





Step 7:

Fill in the table to say when you would use each separation method.

Try to give an example for each method.

Separation method	Used for
chromatography	
filtration	
evaporation	
distillation	