

Spring Term 1

Year 7 Matter

Extended Homework Assignment



Name: _____

Teacher: _____

Instructions

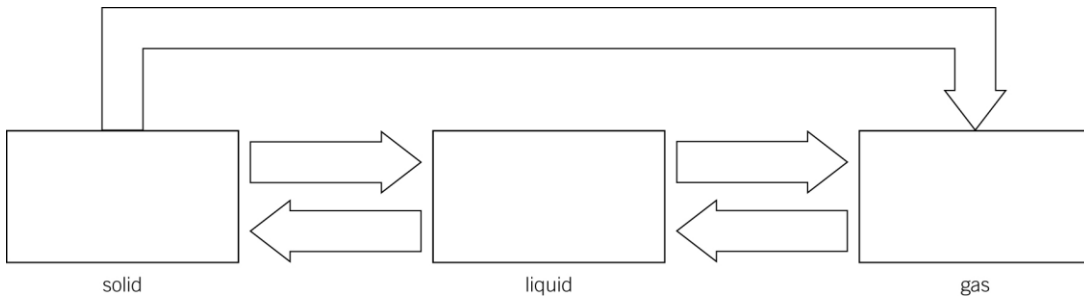
Please complete all sections

You will need to complete sections as you work through the topic

A printed copy should be handed into your teacher.

Matter

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:



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

Solid: _____

Liquid: _____

Gas: _____

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

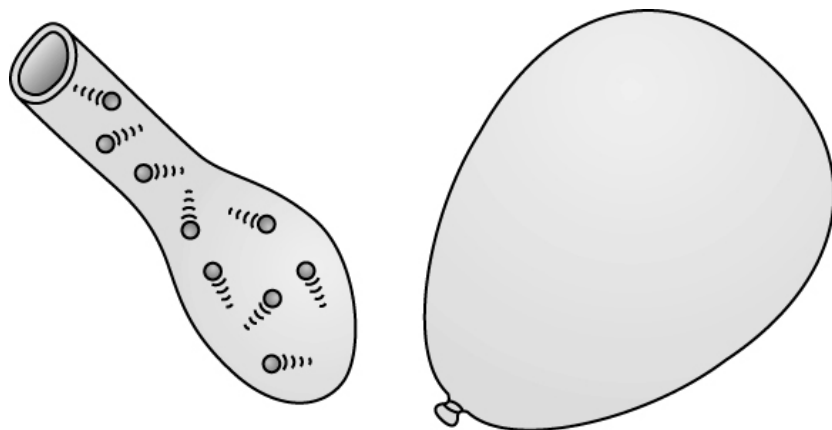
Change of state	The particles...
melting	
boiling	
condensing	
freezing	
sublimation	

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

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).



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



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	