76 The Particle Model- Revision Worksheet	Draw the particle model for each state of matter .	State the definition of diffusion .
State what the 3 states of matter are. Complete the table by describing the properties		
of the states of matter.	Describe the movement of the particles in each of the particles models above.	Describe 3 examples of diffusion. 1. 2. 3.
	Explain, using the particle model , why liquids take the shape of their containers but solids have a fixed shape.	Draw a diagram to show diffusion occurring.
State what state of matter a sponge is and explain why.		
	Explain, using the particle model , why gases are the only state of matter than can be compressed .	
Describe what a scientist will do when they have a hypothesis and how it then becomes a theory .		Explain why diffusion is faster in gases compared to liquids .
	Describe what Brownian motion is.	
	Complete the following table by converting between units .	
Describe what a particle is and where they are found.	NanometresMetres1111	Describe how you could increase the rate of diffusion in a liquid .
	500 000	

Define the following key words:		Rate the following on how well you think you can do them:	
Air Pressure			
Vacuum			
Explain how air pressure keeps car tyres inflated.		I can Identify adjectives, comparatives and superlatives in 	
Explain, using particle theory and air pressure ,		 sentences. Understand how to use adjectives, comparatives and superlatives to measure and compare. 	
what would happen if you removed all the air from inside a metal can.		Name the three states of matter and give examples of each.	
		 Describe what the three states of matter are like, based on their properties. 	
	Describe what	 Identify materials that are difficult to classify as solids, liquids or gases. 	
	happens to the	Identify scientific questions, hypotheses and predictions.	
Complete the Venn diagram below comparing the properties and particles in the three states of matter.	egg above, explain why	 Describe how evidence and observations are used to develop a hypothesis into a theory. 	
		 Explain how evidence is used to support (or not support) a certain theory. 	
		 Recognise that all matter is made up of particles. 	
		 Describe, draw and recognise the arrangement of particles in solids, liquids and gases. 	
	······	 Use the particle theory to explain the properties of the three states of matter. 	
	Explain how	Explain how Brownian motion supports particle theory.	
	methane can crack	Explain how scientific theories evolve.	
	the ground in	Convert between nanometres and metres.	
	landfill sites.	 State what is meant by diffusion and recall some of its effects. 	
		Use particle theory to explain diffusion in liquids and gases.	
		 Use particle theory to explain why diffusion is faster in some materials than in others. 	
Gases		Say what is meant by gas pressure and recall some its effects.	
		 Describe the cause of gas pressure using particle theory. 	