	7G The Particle Model	Solid Particle Properties	Fixed arrangement of particles held closely together that cannot move over each other but vibrate.	Trace	Used to plot the movement of a particle and used as evidence for Brownian motion.	Straws	you suck, you pressure insid	because when I reduce the de the straw so Ire outside the
1. Sol	ids, Liquids and Gases	Liquid Particle	Held closely together but not in a fixed arrangement and	Molecule	Two or more atoms joined together in a group.		straw is grate is pushed up.	er and the liquid
States of Matter	The three forms that a substance can be in; solid, liquid or gas.	Properties Gas Particle Properties	can move over each other. Far apart from each other and free to move about in all directions.	Nanometre	A unit of measurement. 1 nanometre (nm) is 0.000 000 001 metres (m)	Lesson		Memorised
Solid Properties	Do not flow Fixed shape Fixed volume Cannot be compressed Can Flow	Solid Particle Diagram Liquid Particle Diagram		Diffusion	4. Diffusion The movement of particles spreading out and mixing with each other without anything moving them.	 Solids, Gases Particle 	Liquids and es	
Liquid Properties	No fixed shape Fixed volume Cannot be compressed			Particle Theory and Diffusion	Occurs quickly in gases because they are able to move freely in all directions.	3. Brown 4. Diffusi	ian Motion	
Gas Properties	Can flow No fixed shape No fixed volume Can be compressed				Diffusion is slower in liquids because the particles are still moving but not as freely as in a gas.	5. Air Pressure		
Flow	To move and change shape smoothly.				Diffusion cannot occur in solids because the particles			
Volume	The amount room something takes up. Measured in cubic centimetres (cm ³).	Gas Particle Diagram		Small Intestine	are in a fixed positon. Diffusion of particles of essential substances in our			
Comprocood	Squashed into a smaller volume.				food pass through the wall of the small intestine.			
Pressure	The amount of force pushing on a certain area.				5. Air Pressure The force on a certain area			
	2. Particles A theory used to explain the	Vibrate	To move backwards and forwards. Brownian Motion An erratic movement of small specks of matter caused by being hit by the moving particles that make up liquids Air Pressure Vacuum	Air Pressure	caused by air molecules hitting it.			
Particle Theory	different properties and observations of solids, liquids and gases.			-	Makes sure tyres are inflated. Can also affect the weather making it dry and settled.			
Particles	Tiny pieces of matter that everything is made out of.	Brownian Motion			A completely empty space containing no particles (not			
Forces	Tiny forces of attraction hold the particles together.		or gases.		even air).			

the particles together.