

Key Vocabulary		
Word	Meaning	
conductor	A substance that heat or elec- tricity can pass through or along.	
dissolves	When a substance is mixed with a liquid and the sub-	
filtering	A device used to remove dirt or other solids from liquids or gases. A filter can be made from paper, charcoal, or o ther material with tiny holes in it.	
insoluble	Impossible to dissolve espe- cially in a given liquid.	
insulator	A non-conductor of electricity or heat.	
irreversible	Impossible to reverse, turn back, or change.	
particles	Particles re tiny bits of matter that make up everything in the universe. They have different	
permeable	Of a substance being such that gas or liquid can pass through	
resistance	The opposing power of one force against another.	
reversible	Able to turn or change back.	
soluble	Able to be dissolved.	
thermal	Relating to or caused by heat or by changes in temperature.	

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particles	Word	Meaning	
Changes of State Changes of State The solid melts. The liquid freezes.	sotids	One of the three states of matter. Solid particles are very close together, meaning solids, such as wood and glass, hold their shape.	
Iiquid The gas condenses. The liquid evaporates. The liquid evaporates. Key Knowledge Key Knowledge Reversible changes, such as mixing and dissolving solids and lictan be reversed by: Iidage	ds together,	This state of matter can flow and take the shape of the con- tainer because the particles are more loosely packed than solids and can move around each oth- er. Examples of liquids include water and milk.	
Sieving Filtering Eve	gases.	One of the three states of matter. Gas particles are further apart than solid or liquid particles and they are free to move around. Examples of gases are oxygen and helium.	
o fall through the holes in get caught in the filter gas, lea he sieve, separating them paper but the liquid will particles	hanges into a g the solid nind.	The process of heating a solid until it changes into a liquid.	
rom larger particles. be able to get through.	freezing	When a liquid cools and turns into a solid.	
new product being made from the old materials (reactants). For example, burning wood produces ash.		When a liquid turns into 'a gas or vapour.	
Mixing vinegar and milk produces casein plastic.	condensing	When a gas, such as water va- pour, cools and turns into a liq- uid.	