Science 9 Chemistry I		Name: Date: Block:	
	<ol> <li>Matter</li> <li>Pure Subst</li> <li>Properties</li> </ol>	ance vs. Mixture of Matter	
Matter			
onythi	ag that has	and takes up	
Classification of matter	ng that has	and takes up	
	: made up of	of particle;	
by physical mean			
		pure substances;	
by physical mean Matter is either a		or a	
		_ 01 a	
Mixture			
• Example:	(nitrogen, oxygen, hyd	ns): mixed; can drogen), (iron and oth Components that	er elements),
	,	I	2
Pure Substance			
down into simpler substa	nces (example:		Periodic Table of the Bornston I and a second seco
Compounds: made up o down into simpler substa	f nces (example:	; can be broken	NaCE

## **Properties of Matter**

Matter can be described by

- \_\_\_\_\_ properties: characteristics that can be \_\_\_\_\_\_ or \_\_\_\_\_ without changing is chemical identity (examples: \_\_\_\_\_\_, \_\_\_\_\_)

Physical Properties	Chemical Properties	
The colour of the substance or material	How easily a substance bursts into flame	
The ability for metals to be hammered or rolled into a thin sheet	The tendency for a substance to undergo a chemical reaction	
The feel, appearance, or consistency of a surface or a substance.		
A measure of a fluid's resistance to flow (i.e., low viscosity flows easily)		
The ability to conduct/transmit heat, electricity, or sound		
Solid, liquid, or gas		
The temperature where a substance changes from solid to liquid		
The temperature where a substance changes from liquid to gas		
A description of how hard or soft a material is		
The ability for a substance to be dissolved into a liquid		
The ability of a material to have its shape changed without losing strength or breaking		

## **Physical Changes**

- A change to \_\_\_\_\_\_ of a substance.
- They are usually \_\_\_\_\_\_
- E.g.: crushing a can, shredding paper, melting an ice cube

## **Chemical Changes**

- A process in which one or more substances are altered into one or more \_\_\_\_\_\_.
- A chemical reaction involving the \_\_\_\_\_ of atoms.
- Also known as a \_\_\_\_\_\_
- E.g.: cooking an egg, metal rusting, a fire burning



