Unit 4 – Chemistry:

Day 2 - Physical and chemical changes of matter

Name: _	 	
Date:	 	
Block:		

Chemical Properties:	react with another substance to form one	e or		
Examples:				
Combustibility: <u>ability to catch fire or burn in air</u>				
Reactivity with Acids: some things react with acid EX: baking soda & vinegar				
Reactivity with Oxygen:foods turing brown, copper turning green				
Lack of Reactivity:(inert) substances that do not react Ex. Helium				
is still the same.	(shape) or smell only, chemical make (co	mposition) up		
Examples of physical change:				
1) Grinding or Crushing	3) Melting	Phase change		
peanuts -> peanut butter	ice cube -> water	is always a physical		
2) Folding or Crumpling	4) Dissolving	change!!!		
paper -> paper airplane	salt dissolves in water			
Chemical Change:				
one type of matter changes to	produce one or more different types of n	natter		
ex: a chemical reaction These are not reversable				
Indicators of chemical change:				

1) Burning or Fire

4) Change in Colour

house burns down

toast

2) Temperature Change without Heating or Cooling 5) Change in Odour exothermic / endothermic reations rotting meat

HAnd warmers 3) Explosion!

6) Bubbles or Fizzing

vinegar + baking soda

gas is created and leaves reaction

Description	Physical or Chemical Change?
Condensation (water from gas to liquid)	physical
Combustion of gas in a car	chemical
Milk going bad	chemcal
Turning copper into copper wire	physical
Breaking Piggy Bank	physical
Fireworks	chemical
Coke and Mentos	chemical
Cutting Hair	physical
Sodium and Water	chemical
Ice Melting	physical
Mixing sugar into coffee	physical
Metal Work	physical