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Unit 7 - Chemical Reactions Notes

substances is called a	·		
Evidence for Chemical Reactions	includes:		
★ Absorption or release	of	or	
★ Absorption or release	of	or	
★ Formation of a	or a		
★ Change in	or		_
To prove a chemical reaction to investigate if the new substance composition among other things.	as a different dens		
All chemical reactions involve a c	hange in energy. If	the energy is	
it is considered a part of the		_; however, if it is _	
it is considered part of the			
Mass is neither	nor	in a	a chemical reaction
Atoms are just	to form nev	v bonds.	
Atoms must collide with order to break and form new bor		at the	i
order to break and form new bor	103.		
Areaction between the reactants a		formulas and symb	ols to represent the
Chemists use symbols to show			
Examples of common symbols:			
Solids Liquids		Aqueous	

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	for ionic nomenclature, ar		nomenclature. Ionic compound cules follow the rules for
	Calcium Phosphate		Carbon Dioxide
Examples.	Calcian Friosphate		carbon bioxide
STOP	change	to	chemical equations!!!
formula in a che add coefficients	emical reaction; because th	e chemical formical equations; the	t appears as a factor in front of a ulas cannot change, one must ese coefficients represent the the reaction.
Exar	mple: H ₂ (g) +	$_{0_{2}}(g) \rightarrow _{0_{2}}(g)$	H ₂ O (I)
			which two or more substances
	Example:		
★ dow	n to form two or more sim	_ is a reaction in voler substances.	which a single compound breaks
★ of th	ne ions in an ionic compoun	_ is a reaction in v d.	which an element replaces one
,	> Δ renl	2005 2	

Example:

		Α		_ replaces an _		·
		Example:				
*					is a reaction	n in which two ionic
	compo	ounds exchang	e anions.	. If one of the	products forms a	a solid, it's called a
			·			
		Example #1:				
		-				
		Example #2:				
		Note: A			المادات المادات المادات	
						c compound that n. All precipitates will
		be followed b	y the	symbol to	show they are ir	nsoluble solids.
*						replacement reaction
	in whic	ch an acid reac	ts with a	base to form	an ionic salt and	water.
		Example:				
					_	
*						n organic compound
						burns in the
	presen	ice of oxygen t	o form c	arbon dioxide	and water.	
		Example:				
\star				occurs wh	en there is limite	ed,

and the reaction produces carbon monoxide or carbon instead of carbon dioxide.

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Chemical Reactions Concept Map

