Name:_		
Blk:	_Date:	

Chemistry 11 TYPES OF CHEMICAL REACTIONS

TYPES OF CHEMICAL REACTIONS	
THERE ARE SIX MAJOR TYPES OF CHEMICAL REACTIONS OF IMPORTANCE TO CHEMISTRY 11:	
Type 1. SYNTHESIS	
GENERIC EQUATION: A + B → AB	·
Examples:	
Type 2. DECOMPOSTION	
GENERIC EQUATION: AB → A + B	·
Examples:	
Type 3. SINGLE REPLACEMENT	

GENERIC EQUATIONS: M + AB → MB + A N + AB → AN + B

NOT ALL ELEMENTS CAN "BUMP" THE OTHER OUT OF A CHEMICAL COMPOUND. TO DETERMINE WHETHER OR NOT A BUMPING WILL OCCUR YOU MUST REFERR TO THE FOLLOWING ACTIVITY SERIES:

Examples:

ACTIVITY SERIES				
METALS	NONMETALE			
decre	asing			
acti	vity			
lithium	fluorine			
potassium	chloring			
calcium ' '	bromine			
sodium	, iodine '			
magnesium ·	1 ,			
aluminum				
zinc				
chromium ·				
iron				
nickel				
tin				
lead .				
hydrogen				
copper				
silver				
mercury				
platinum				
gold	1			

GENERIC EQU	ATION: AB + XY → AY	+ XB		
Examples:				
TYPE 5. NEUTR	RALIZATION (Specialize	d DOUBLE REPLAC	CEMENT)	
GENERIC FOLL	ATION: HB + AOH → A	B + H O (0)	·	
	ATION. HB + AOH -7 A	D + Π ₂ Ο (X)		
Examples:				
TYPE 5. COMBI	USTION			
HYDROCARBO	N:			
	ATION: $C_xH_y + O_2 \rightarrow C$			
Examples:	, , , , , , , , , , , , , , , , , , ,	32 · 1123 (9)		
Lxamples.				
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