Balance and identify the type of reaction for each question:

Equation				Type of Reaction
Sn -	+ $Cl_2 \rightarrow$	SnCl ₄		
Fe +	$Cl_2 \rightarrow$	FeCl ₃		
Fe +	$O_2 \rightarrow$	Fe ₂ O ₃		
Al +	$Cl_2 \rightarrow$	Al ₂ Cl ₆		
CaO +	HCl →	CaCl ₂ +	H ₂ O	
C ₆ H ₆ +	$O_2 \rightarrow$	CO ₂ +	H ₂ O	
Mg +	HCl →	MgCl ₂ +	H ₂	
$Al(OH)_3 \rightarrow Al_2O_3 + H_2O$				
Al +	$H_2SO_4 \rightarrow$	Al ₂ (SO ₄) ₃ +	H_2	
NaOH +	$H_2SO_4 \rightarrow$	Na ₂ SO ₄ +	H ₂ O	

What type of reaction is happening? What are the products? There is one of each type of reaction. (You do not need to balance the equations) Don't forget about which elements form diatomic molecules!

Equation	Type of Rxns	Product or Products
$C_6H_{12}O_6 + O_2 \rightarrow ?$		
2NaCl → ?		
$Mg + H_2O \rightarrow ?$		
$CO_2 + H_2O \rightarrow ?$	synthesis	
$K_2(CO_3) + BaCl_2 \rightarrow ?$		