Nar	ne:	Date:
Types of Chemical Reactions (Part II): Single and Double Displacement		
For	Ф	the chemical reactions listed below, complete the following: The type of chemical reaction (single or double displacement) Balance the skeletal equation
1.	Sulphu	ic acid reacts with iron (II) sulphide to produce iron (II) sulphate and hydrogen sulphide.
	Ш	Reaction type: double displacement
		Balance the skeletal equation:H ₂ SO ₄ +FeS \rightarrow FeSO ₄ +H ₂ S
2.	hydroge	li metal such as sodium displaces hydrogen from water to form sodium hydroxide and en gas. Reaction type: Single displaces ext
		Balance the skeletal equation: $2 Na + 2 H_2O \rightarrow 2 NaOH + H_2$
3.	copper	le silver can be recovered from a solution of silver nitrate by adding copper to produce (II) nitrate and a silver precipitate. Reaction type: Single aisplacenes
		Balance the skeletal equation: $2 \text{ AgNO}_3 + \text{ Cu} \rightarrow \text{ Cu(NO}_3)_2 + 2 \text{ Ag}$
4.	and silv	vere to add table salt to a solution of silver nitrate we would produce sodium nitrate solution ver chloride. Reaction type:
		Balance the skeletal equation:NaCl +AgNO ₃ →NaNO ₃ +AgCl
5.	100	um iodide reacts with lead (II) sulphate to produce potassium sulphate and lead (II) iodide.
		Reaction type: <u>aouble displacement</u>
		Balance the skeletal equation: $2 KI + PbSO_4 \rightarrow K_2SO_4 + PbI_2$
6.	The me	etal zinc reacts with tin (II) chloride under high heat conditions to produce zinc chloride and
		Reaction type: <u>Single displacement</u>
	P	Balance the skeletal equation: $Zn + SnCl_2 \rightarrow ZnCl_2 + Sn$
7.	and wa	n hydroxide will be neutralized when combined with hydrochloric acid to produce table salt ster. Reaction type:double aisplacement
		Balance the skeletal equation:NaOH +HCl →NaCl +H2O
8.		gen bromide reacts with iron (III) hydroxide to produce iron (III) bromide and water.
	•	Reaction type: double displacement
		Write and balance the skeletal equation: 3 HBr + Fe(ox) > FeB + 3 H2 O
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