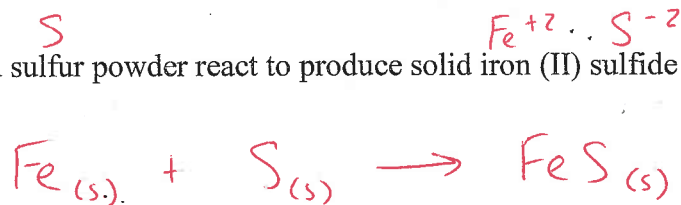


Br₂ I₂ N₂ Cl₂ H₂ O₂ F₂

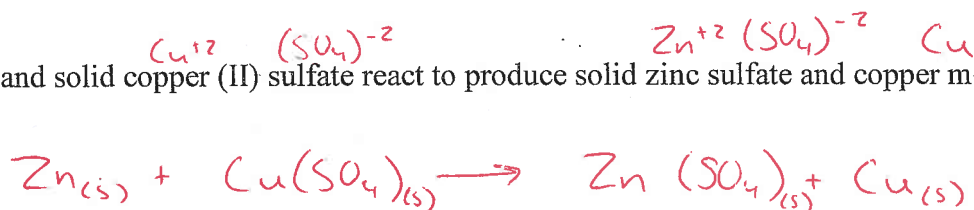
Putting it All Together

Write a BALANCED chemical equation to represent each of the following chemical reactions.

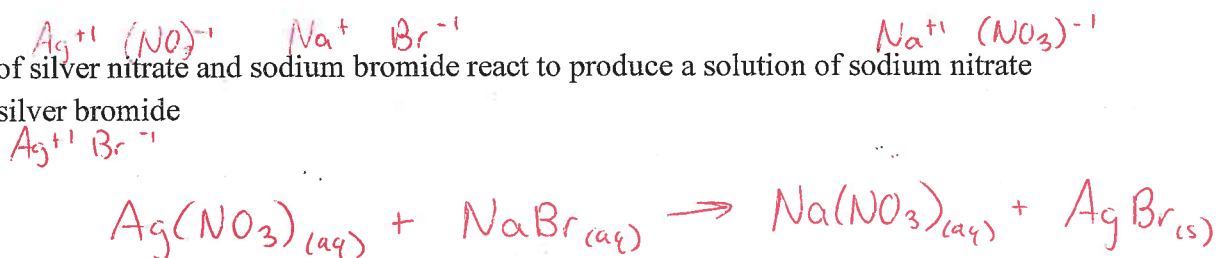
1. iron metal and sulfur powder react to produce solid iron (II) sulfide



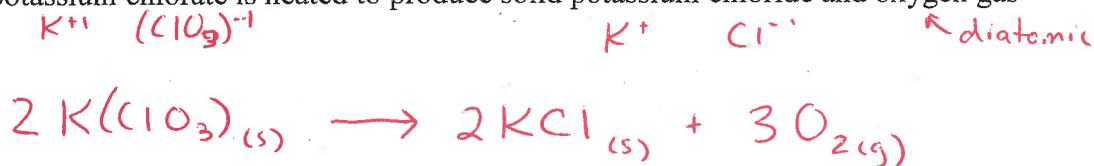
2. zinc metal and solid copper (II) sulfate react to produce solid zinc sulfate and copper metal



3. solutions of silver nitrate and sodium bromide react to produce a solution of sodium nitrate and solid silver bromide



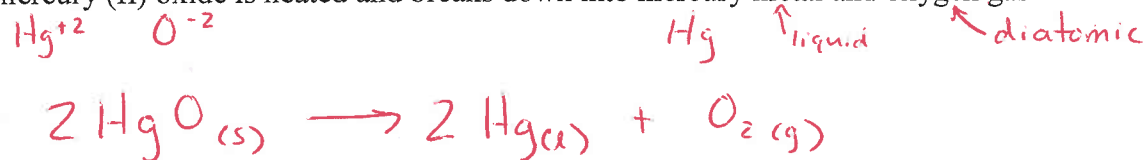
4. solid potassium chlorate is heated to produce solid potassium chloride and oxygen gas



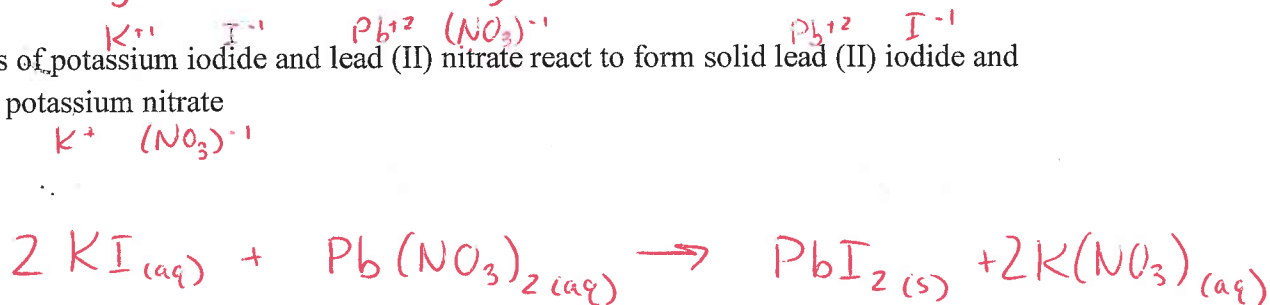
5. liquid water breaks down to produce hydrogen gas and oxygen gas



6. solid mercury (II) oxide is heated and breaks down into mercury metal and oxygen gas



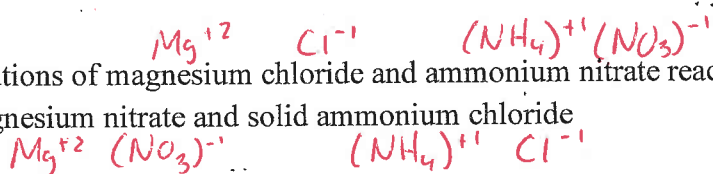
7. solutions of potassium iodide and lead (II) nitrate react to form solid lead (II) iodide and aqueous potassium nitrate



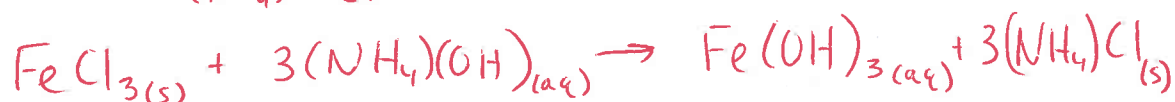
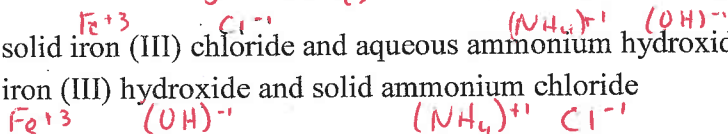
8. aluminum metal and oxygen gas react to produce solid aluminum oxide



9. solutions of magnesium chloride and ammonium nitrate react to produce a solution of magnesium nitrate and solid ammonium chloride



10. solid iron (III) chloride and aqueous ammonium hydroxide react to produce aqueous iron (III) hydroxide and solid ammonium chloride



11. aqueous sodium peroxide (Na_2O_2) and water react to produce a solution of sodium hydroxide and oxygen gas



12. solid iron (III) oxide and solid carbon react to produce iron metal and carbon monoxide gas



13. iron metal and water react to produce hydrogen gas and solid iron (III) oxide

