

Classifying & Balancing Chemical Reactions

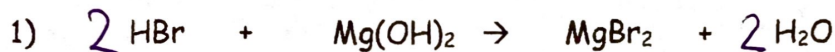
Name: Key

Synthesis	SY
Decomposition	DC
Combustion	C
Single Displacement	SD
Double Displacement	DD

Balance each chemical reaction below and identify the reaction type by writing the appropriate abbreviation from the box.

Balance

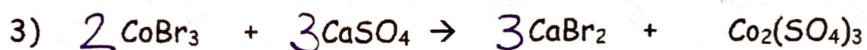
Type



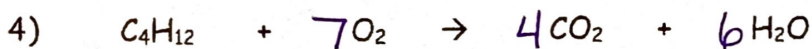
DR



DR



DR



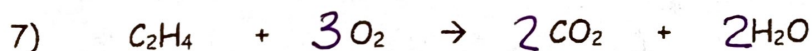
C



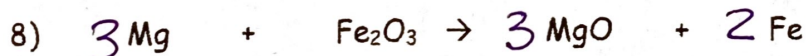
S



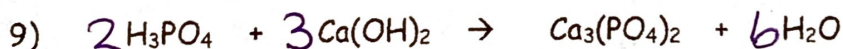
D



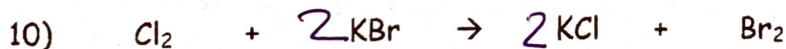
C



SR



DR



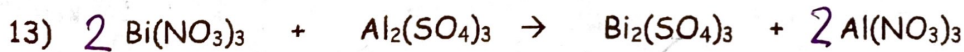
SR



D



S



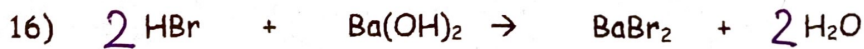
DR



D



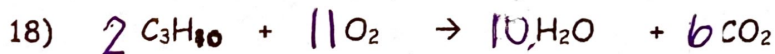
S



DR



SR



C

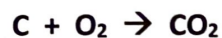
Word Equation Problems

Write and balance the following chemical reactions:

1. Sodium and sulfur combine to yield sodium sulfide.



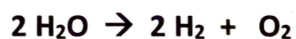
2. Carbon and oxygen combine to yield carbon dioxide.



3. Calcium carbonate decomposes to form calcium oxide and carbon dioxide.



4. Dihydrogen monoxide decomposes to form hydrogen and oxygen.



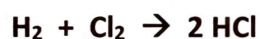
5. Copper (II) chloride and aluminum react to form copper and aluminum chloride.



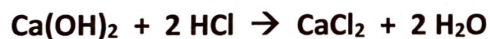
6. Potassium reacts with water to form potassium hydroxide and hydrogen gas.



7. Hydrogen reacts with chlorine to produce hydrochloric acid.



8. Calcium hydroxide and hydrochloric acid react to produce calcium chloride and water.



9. Glucose ($\text{C}_6\text{H}_{12}\text{O}_6$) combines with oxygen to produce water and carbon dioxide.



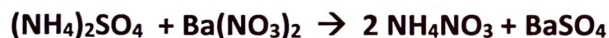
10. Carbon reacts with water to form carbon monoxide and hydrogen.



11. Potassium iodide reacts with lead (II) nitrate to yield potassium nitrate and lead (II) iodide.



12. Ammonium sulfate reacts with barium nitrate to produce ammonium nitrate and barium sulfate.



13. C_2H_6 combines with oxygen to produce carbon dioxide and water.



14. Mercury (II) oxide decomposes to produce mercury and oxygen.

