

## Chemical Equations from Words Equations Worksheet

Change the following word equations to the correct chemical symbol equations and then balance the equations:

1. Solid elemental sodium and diatomic molecular chlorine gas to form the ionic solid sodium chloride.
2. Methane gas ( $\text{CH}_4$ ) and diatomic molecular oxygen react to produce carbon dioxide gas and water vapor.
3. Solid elemental sulfur reacts with diatomic molecular oxygen to form gaseous sulfur dioxide.
4. Solid elemental calcium reacts with diatomic molecular fluorine gas to form solid calcium fluoride.
5. With added heat mercuric oxide decomposes to form elemental liquid mercury and diatomic molecular oxygen gas.
6. Solid calcium carbide ( $\text{CaC}_2$ ) reacts with water to produce acetylene gas ( $\text{C}_2\text{H}_2$ ) and calcium hydroxide solid.
7. Manganese (IV) oxide (commonly named manganese dioxide) and aluminum will react to form aluminum oxide and manganese.
8. Tetraphosphorous decoxide gas and water will react to produce phosphoric acid.
9. At high temperatures, magnesium and nitrogen gas will form magnesium nitride.
10. Ethyl alcohol ( $\text{C}_2\text{H}_5\text{OH}$ ) reacts with oxygen gas to form carbon dioxide gas and water vapor.