**A Quick Complete Equation Sheet**

*Write the complete equations for each of the following reactions:*

1)  When calcium chloride powder (CaCO3) combines with dissolved hydrochloric acid (HCl), dissolved calcium chloride (CaCl2), water, and carbon dioxide gas (CO2) are formed.  This reaction generates a small amount of heat.

2)  When heated, hydrogen gas (H2) and nitrogen monoxide gas (NO) react to form water and nitrogen (N2).  This reaction chills the sides of the container in which is is performed.

3)  Aluminum powder and hydrochloric acid gas (HCl) react to form aluminum chloride (AlCl3) and hydrogen gas (H2).  This reaction results in the generation of a large amount of heat.