**Skill 26.02 Problem 1**

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| Write the chemical symbol to represent the following under normal laboratory conditions:  Silver, mercury, bromine, hydrogen, calcium |
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**Skill 26.02 Problem 2**

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| Write the reaction for each of following laboratory situations |
| 1. A piece of sodium (Na) metal is placed in water (H2O) and produces hydrogen (H2) gas and sodium hydroxide (NaOH) |
| 1. When zinc (Zn) metal is added to an aqueous solution of copper chloride (CuCl2), solid copper (Cu) precipitates and aqueous zinc chloride (ZnCl2) is produced. |
| 1. When solid carbon (C) combusts in a limited supply of oxygen (O2), carbon monoxide (CO) gas is produced. |
| 1. When methane gas (CH4) is burned, carbon dioxide (CO2) gas and water (H2O) vapor are produced. |

**Skill 26.02 Problem 3**

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| For each reaction, write a suitable word equation |
| 1. (Barium Hydroxide) Ba(OH)2(*s*) + (Silver Nitrate) AgNO3(*aq*) 🡪 (Barium Nitrate) Ba(NO3)2(*aq*) + (Silver Hydoxide) AgOH(*s*) |
| 1. (Sodium) Na(*s*) + (water) H2O(*l*) 🡪 (Sodium Hydroxide) NaOH(*aq*) + (Hydrogen) H2(*g*) |