**REACTIONS LIST:**

**Element: Na (Sodium)**

**1. 2Na + O2 → 2Na2O2 Effect: Fire (Orange)**

**Equation: 2Na + O2 → 2\_\_\_O2**

**Answers: Na2 Na4 CO3 O4**

**Correct answer: Na2**

**2. 2Na + 2H2O → 2NaOH + H2  Effect: Fire(Orange) + gas**

**Equation: 2Na + 2\_\_\_\_ → 2NaOH + H2**

**Answers: H20 H Na OH**

**Correct answer: H2O**

**3. 2Na + Cl2 → NaCl Effect: Fire(Yellow)**

**Equation: 2Na + Cl2 → \_\_\_\_\_**

**Answers: NaOH NaCl NaO2 Cl2**

**Correct answer: NaCl**

**4. 2Na + Br2 → NaBr Effect: Fire(Orange)**

**Equation:**

**Answers:**

**Correct answer:**

**5. 2Na + I2→ NaI Effect: Fire(Violet)**

**6. 2Na + F2 → NaF Effect: Fire(Yellow)**

**7. 2Na + H2SO4 → 2Na+ SO42+ H2 Effect: White bubbles and smoke**

**8. 2Na+ 2H2O → 2NaOH+ H2 Effect: Fire(Orange)**

**Element: Fe (Iron)**

**1. 4Fe + 3O2 → 2Fe2O3 Effect: Rust**

**2. 2Fe + 3F2 → 2FeF3 Effect: Fire (White)**

**3. 2Fe + 3Cl2 → 2FeCl3 (dark brown) Effect: Fire (Dark brown)**

**4. 2Fe + 3Br2 → 2FeBr3 (reddish brown) Effect: Fire (Reddish broen)**

**5. Fe + I2 → FeI2 (grey) Effect: Fire (Grey)**

**6. Fe + H2SO4 → Fe2 + SO42 + H2 Effect: Bubbles**

**7. 3Fe + 2O2 → Fe3O4 Effect: Rust**

**8. Fe2 + CO2 →FeCO3  Effect: Rust**

**Element: Co (Cobalt)**

**1. 3Co + 4O2 → 2Co3O4 Effect: Dust**

**2. 2Co + O2 → 2CoO Effect: Dust**

**3. Co + Br2 → CoBr2 Effect: Fire (Green)**

**4. Co + Cl2 → CoCl2  Effect: Fire (Blue)**

**5. Co + I2 → CoI2 Effect: Fire (Blue-Black)**

**6. Co + H2SO4 → Co2 + SO42 + H2 Effect:**

**7. Co2+CO2→CoCO3 Effect:**

**8. Co2 + S2 →CoS Effect:**

**Element: Ba (Barium)**

**1. 2Ba + O2 → 2BaO**

**2. Ba + O2 → BaO2**

**3. 3Ba + N2 → Ba3N2**

**4. Ba + 2H2O → Ba(OH)2 + H2**

**5. Ba + Cl2 → BaCl2**

**6. Ba + Br2 → BaBr2**

**7. Ba + I2 → BaI2**

**8. 3 Ba + N2 → Ba3N2**

**Element: Ca (Calcium)**

**1. 2Ca + O2 → 2CaO**

**2. 3Ca + N2 → Ca3N2**

**3. Ca + 2H2O → Ca(OH)2 + H2**

**4. Ca + F2 → CaF2**

**5. Ca + Cl2 → CaCl2**

**6. Ca + Br2 → CaBr2**

**7. Ca + I2 → CaI2**

**8. Ca + 2HCl → Ca2 + 2Cl + H2**

**Element: Li (Lithium)**

**1. 4Li + O2 → 2Li2O**

**2. 2Li + O2 → 2Li2O2**

**3. 6Li + N2 → 2Li3N**

**4. 2Li + 2H2O → 2LiOH + H2**

**5. 2Li + F2 → LiF**

**6. 2Li + Cl2 → LiCl**

**7. 2Li + H2SO4 → 2Li + SO42 + H2**

**8. 2Li + 2H2O → 2LiOH + H2**

**BOSS!**

**Element: Pm (Promethium)**

**1. 4Pm + 3O2 → 2Pm2O3**

**2. 2Pm + 6H2O → 2Pm(OH)3 + 3H2**

**3. 2Pm + 3F2 → 2PmF3**

**4. 2Pm + 3Cl2 → 2PmCl3**

**5. 2Pm + 3Br2 → 2PmBr3**

**6. 2Pm + 3I2 → 2PmI3**

**7. 2Pm + 3H2SO4 → 2Pm3 + 3SO42 + 3H2**