

### **WORKSHEET ON SINGLE & DOUBLE REPLACEMENT REACTIONS**

**Predict the products. Write formulas & balance each reaction. If there is no reaction, then just put NO RXN.**

**Single Replacement:**  $A + BC \rightarrow B + AC$  or  $A + BC \rightarrow C + BA$  (when A and C are negative ions)

1. Zinc + Hydrogen chloride  $\rightarrow$
2. Magnesium + Hydrogen Sulfate  $\rightarrow$
3. Copper (II) chloride + Fluorine  $\rightarrow$
4. Silver + Sodium Hydroxide  $\rightarrow$
5. Potassium iodide + Bromine  $\rightarrow$
6. Calcium + Hydrogen hydroxide  $\rightarrow$
7. Iron IV oxide + Hydrogen  $\rightarrow$

**Double Replacement:**  $AB + CD \rightarrow AD + CB$

1. Barium chloride + Aluminum sulfate  $\rightarrow$
2. Calcium nitride + water  $\rightarrow$
3. Calcium hydroxide + Hydrogen phosphate  $\rightarrow$
4. Hydrogen sulfate + Sodium hydrogen carbonate  $\rightarrow$
5. Calcium hydroxide + Ammonium chloride  $\rightarrow$
6. Potassium iodide + Lead II Nitrate  $\rightarrow$
7. Sodium acetate + Calcium sulfide  $\rightarrow$

**Complete each word equation, write formulas and balance the reaction equation. Then identify and place the type of reaction (single replacement or double replacement) in the blank provided.**

1. Zinc + Silver nitrate  $\rightarrow$
2. Aluminum + Hydrogen chloride  $\rightarrow$
3. Magnesium oxalate + Ammonium carbonate  $\rightarrow$
4. Calcium + Aluminum nitrate  $\rightarrow$
5. Potassium fluoride + Lead (II) Nitrate  $\rightarrow$
6. Calcium bromide + Silver nitrate  $\rightarrow$
7. Ammonium phosphate + Barium acetate  $\rightarrow$
8. Sodium chloride + Potassium  $\rightarrow$
9. Magnesium nitrate + ammonium chloride  $\rightarrow$
10. Iron (III) chlorate + calcium  $\rightarrow$
11. Chlorine + Sodium bromide  $\rightarrow$
12. Potassium chloride + Silver nitrate  $\rightarrow$
13. Calcium hydroxide + Hydrogen nitrate  $\rightarrow$
14. Lead II nitrate + Potassium chloride  $\rightarrow$
15. Strontium carbonate + Hydrogen nitrate  $\rightarrow$
16. Gold + Potassium nitrate  $\rightarrow$
17. Zinc + Silver nitrate  $\rightarrow$
18. Aluminum + Copper II sulfate  $\rightarrow$