Year 9 Chemistry: Types of Chemical Reactions

Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

# Acid and Base Neutralisation Reaction





**Acid + Base 🡪 Salt + Water**

e.g: HCl + NaOH 🡪 NaCl + H2O

# Acid and a Reactive Metal

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**Acid + Metal 🡪 Hydrogen Gas + Salt**

e.g: H2SO4  + Mg 🡪 H2 + MgSO4

# Acid and a Metal Carbonate

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**Acid + Metal Carbonate 🡪 Carbon Dioxide + Salt + Water**

e.g: 2HNO3 + CaCO3 🡪 CO2 + Ca(NO3)2 + H2O

# Metal and Oxygen (Oxidation of Metal)

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**Metal + Oxygen 🡪 Metal Oxide**

e.g: 2Cu + O2 🡪 2CuO

# Non- Metal and Oxygen (Non-Metal Oxide)



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**Non- Metal + Oxygen 🡪 Non-Metal Oxide**

e.g: C + O2 🡪 CO2

# Hydrocarbon and Oxygen (Combustion)

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**Hydrocarbon + Oxygen 🡪 Carbon Dioxide + Water**

**and releases Energy!**

e.g C5H12  + 8O2 🡪 5CO2 + 6H2O