Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Class: \_\_\_\_\_\_\_

Explain: Chemical Reactions Practice

**Guided Practice:** *Identify the following chemical reactions as synthesis, decomposition, single replacement, double replacement, or combustion.*

1. Pb + O2 🡪 PbO2
2. KBr + HCl 🡪 HBr + KCl
3. 2 C10H22 + 31 O2 🡪 20 CO2 + 22 H2O
4. Mg + 2 H2O 🡪 Mg(OH)2 + H2
5. 2 H2O 🡪2 H2 + O2

**Independent Practice:** *Identify the following chemical reactions as synthesis, decomposition, single replacement, double replacement, or combusti.*

1. Na3PO4 + 3 KOH 🡪 3 NaOH + K3PO4

Reaction Type \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. MgCl2 + Li2CO3 🡪 MgCO3 + 2 LiCl

Reaction Type \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. C6H12 + 9 O2 🡪 6 CO2 + 6 H2O

Reaction Type \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Pb + FeSO4 🡪 PbSO4 + Fe

Reaction Type \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. CaCO3 🡪 CaO + CO2

Reaction Type \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. P4 + 3 O2 🡪 2 P2O3

Reaction Type \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. 2 RbNO3 + BeF2 🡪 Be(NO3)2 + 2 RbF

Reaction Type \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. 2 AgNO3 + Cu 🡪 Cu(NO3)2 + 2 Ag

Reaction Type \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. C3H6O + 4 O2 🡪 3 CO2 + 3 H2O

Reaction Type \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. 2 C5H5 + Fe 🡪 Fe(C5H5)2

Reaction Type \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. SeCl6 + O2 🡪 SeO2 + 3Cl2

Reaction Type \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. 2 MgI2 + Mn(SO3)2 🡪 2 MgSO3 + MnI4

Reaction Type \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. O3 🡪 O. + O2

Reaction Type \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. 2 NO2 🡪 2 O2 + N2

Reaction Type \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

|  |  |  |
| --- | --- | --- |
| **Cartoon** | **What type of reaction is the cartoon like?** | **Why? What is the Connection?** |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  | **combustion** |  |

Chemical Reactions: They’re Like Dating