**Stoichiometry: Balancing Equations: Quiz 1b**

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State the reaction type AND Balance the following Equations:

1. C7H6O2 + O2 🡪 CO2 + H2O
2. N2 + O2 🡪 N2O
3. HNO3 🡪 N2O5 + H2O
4. S8 + O2 🡪 SO3
5. Fe + H2O 🡪 Fe3O4 + H2

Answers:



1. 2 C7H6O2 + 15 O2 🡪 14 CO2 + 6 H2O Combustion



1. 2 N2 + O2 🡪 2 N2O Synthesis



1. 2 HNO3 🡪 N2O5 + H2O Decomposition



1. S8 + 12 O2 🡪 8 SO3 Synthesis



1. 3 Fe + 4 H2O 🡪 Fe3O4 + 4 H2 Single Replacement