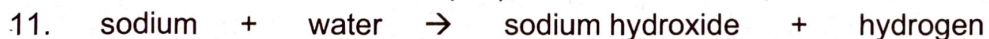
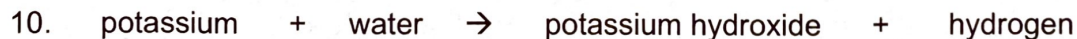
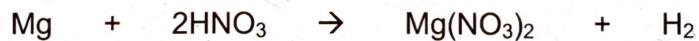
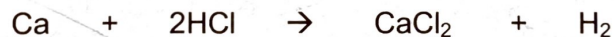
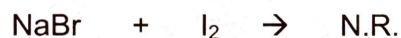
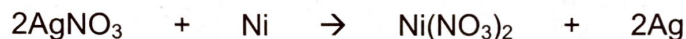
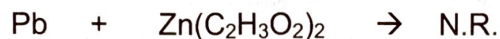
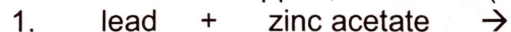


Worksheet #4: Single-Replacement Reactions

Step 1 - Write the formulas of the reactants on the left of the yield sign

Step 2 - Look at the Activity Series on page 266 to determine if the replacement can happen

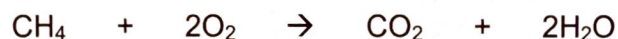
Step 3 - If the replacement can occur, complete the reaction and balance it. If the reaction cannot happen, write N.R. (no rxn) on the product side.



Worksheet #6: Combustion Reactions

We will focus on the combustion of hydrocarbons. Hydrocarbons react with oxygen to form carbon dioxide and water.

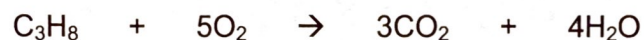
1. methane (CH₄) + oxygen → carbon dioxide + water



2. ethane (C₂H₆) + oxygen → carbon dioxide + water



3. propane (C₃H₈) + oxygen → carbon dioxide + water



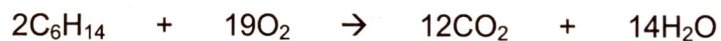
4. butane (C₄H₁₀) + oxygen → carbon dioxide + water



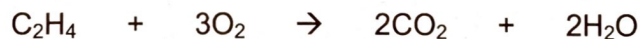
5. pentane (C₅H₁₂) + oxygen → carbon dioxide + water



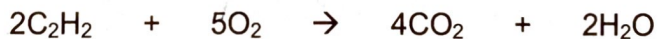
6. hexane (C₆H₁₄) + oxygen → carbon dioxide + water



7. ethene (C₂H₄) + oxygen → carbon dioxide + water



8. ethyne (C₂H₂) + oxygen → carbon dioxide + water



9. benzene (C₆H₆) + oxygen → carbon dioxide + water

