

Balancing Chemical Equations Worksheet

1

Write the balanced chemical equation for the reaction where nitrogen gas reacts with hydrogen gas to form ammonia (NH_3).

2

Balance the chemical equation for the reaction where iron (Fe) reacts with oxygen (O_2) to form iron(III) oxide.

3

Provide the balanced chemical equation for the combustion of ethanol ($\text{C}_2\text{H}_5\text{OH}$), which produces carbon dioxide and water.

4

Write the balanced equation for the thermal decomposition of potassium chlorate (KClO_3) into potassium chloride (KCl) and oxygen gas (O_2).