

Balancing Chemical Equations
Let's Practice!

Write the balanced chemical equation for when magnesium metal undergoes combustion to produce magnesium oxide.

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Write the balanced chemical equation for the combustion of butane (C_4H_{10}) gas, where carbon dioxide and water are the only products.

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Write the balanced chemical equation for the decomposition of potassium chlorate upon heating to give oxygen and potassium chloride.

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Write the balanced chemical equation for the reaction of magnesium hydroxide and phosphoric acid to form magnesium phosphate and water.

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Write the balanced chemical equation for the reaction of silver nitrate with hydrogen sulfide to produce silver sulfide and nitric acid.

Information from a Chemical Equation
Let's Practice!

From the chemical equation below, how many moles of oxygen are needed to burn 2 molecules of propane (C_3H_8)?

**Single Displacement Reactions
Let's Practice!**

Write the reaction (if it occurs) between the following substances:
Iron metal and a solution of magnesium chloride.

**Writing Reaction Equations
Let's Practice!**

Write the balanced reaction equation between aqueous barium chloride and magnesium sulfate.

**Writing Reaction Equations
Let's Practice!**

Write the reaction equation between aqueous solution of hydroiodic acid and sodium hydroxide.

**Writing Reaction Equations
Let's Practice!**

Write the balanced reaction equation between aqueous potassium phosphate and barium chloride.

**Writing Reaction Equations
Let's Practice!**

Write the reaction equation between aqueous solution of hydroiodic acid and sodium hydroxide.

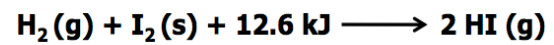
**Writing Reaction Equations
Let's Practice!**

Write the balanced reaction equation between aqueous ammonium chloride and sodium nitrate.

Heat in Chemical Reactions

Let's Practice!

In the reaction:



When 4 moles of HI are produced, _____ kJ of energy is _____
(absorbed or released).