

Chemistry, Part 1

Module 14 Notes



Big Question

How are metals used in chemical processes, reactions, and production of chemical reactions?

Big Idea

Using chemical analysis, you can identify the metals of a substance or particles of that substance. A metal is often used in manufacturing. It is used in construction as structural analysis with chemical reactions.

Learning Objectives

After completing this module, students will be able to:

- Use the law of conservation of mass to balance chemical reactions.
- Use chemical reactions to describe processes of materials.
- Compare different metals and reactions.
- Describe the properties of different metals.

Module 14 Objectives

Learning Objective Use the law of conservation of mass to balance chemical reactions.

Fill in the blanks.

1. $2\text{H}_2 + \text{O}_2 \rightarrow 2\text{H}_2\text{O}$ (Balanced)
2. $\text{Fe} + \text{O}_2 \rightarrow \text{Fe}_2\text{O}_3$ (Not Balanced)
3. $\text{C}_2\text{H}_6 + \text{O}_2 \rightarrow \text{CO}_2 + \text{H}_2\text{O}$ (Not Balanced)

Chemical Reactions and Equations

For the first reaction, the law of conservation of mass:

Carbon monoxide + oxygen $\rightarrow$ carbon dioxide (balanced)

Hydrogen gas + oxygen $\rightarrow$ water (balanced)

Hydrogen gas + oxygen $\rightarrow$ water

Hydrogen gas + oxygen $\rightarrow$ water

Module 14

Learning Objective Use the law of conservation of mass to balance chemical reactions.

Fill in the blanks.

1. 1 mole of hydrogen gas reacts with 1 mole of oxygen gas to form 2 moles of water.
2. The mass of the reactants (hydrogen gas and oxygen gas) is equal to the mass of the products (water).

Answers For Chemistry Module 14

Disha Experts

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the 'Disha Experts' text.

Answers For Chemistry Module 14:

Chemistry-vol-II Dr Vijay Sardar, Dr A C Handa, Dr K K Arora, A text book on Chemistry Chemistry John Atkinson, Carol Hibbert, 2001 This chemistry text is written to match exactly the specification for teaching Advanced Chemistry from September 2000 There are two strands AS and A2 with student books The accompanying resource packs are also available on CD ROM *CSIR NET Life Science - Unit 14 - Immunology* Mr. Rohit Manglik, 2024-07-15 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels UGC NET Chemistry Paper II Chapter Wise Notebook | Complete Preparation Guide EduGorilla Prep Experts, 2022-09-01 Best Selling Book in English Edition for UGC NET Chemistry Paper II Exam with objective type questions as per the latest syllabus given by the NTA Increase your chances of selection by 16X UGC NET Chemistry Paper II Kit comes with well structured Content Chapter wise Practice Tests for your self evaluation Clear exam with good grades using thoroughly Researched Content by experts **AS Chemistry for AQA** John Atkinson, Carol Hibbert, 2000 This chemistry text is written to match exactly the specification for teaching Advanced Chemistry from September 2000 There are two strands AS and A2 with student books The accompanying resource packs are also available on CD ROM **Cambridge IGCSE® Chemistry Revision Guide** Roger Norris, 2015-10-08 The Cambridge IGCSE Chemistry Revision Guide supports students through their course containing specifically designed features to help students apply their knowledge as they prepare for assessment This Revision Guide offers support for students as they prepare for their Cambridge IGCSE Chemistry 0620 exams Containing up to date material that matches the syllabus for examination from 2016 and packed full of guidance such as Worked Examples Tips and Progress Check questions throughout to help students to hone their revision and exam technique and avoid common mistakes These features have been specifically designed to help students apply their knowledge in exams Written in a clear and straightforward tone this Revision Guide is perfect for international learners **Cambridge International AS and A Level Chemistry Revision Guide** Judith Potter, Peter Cann, 2015-10-29 A revision guide tailored to the AS and A Level Chemistry syllabus 9701 for first examination in 2016 This Revision Guide offers support for students as they prepare for their AS and A Level Chemistry 9701 exams Containing up to date material that matches the syllabus for examination from 2016 and packed full of guidance such as Worked Examples Tips and Progress Check questions throughout to help students to hone their revision and exam technique and avoid common mistakes These features have been specifically designed to help students apply their knowledge in exams Written in a clear and straightforward tone this Revision Guide is perfect for international learners NEET UG Chemistry Study Notes with Theory + Practice MCQs for Complete Preparation | Based on New Syllabus as per NMC EduGorilla Prep Experts, *New Interchange Resource Book Intro* Jack C. Richards, 2004-05-10

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