

CH301 Worksheet 1 Answer Key: High School Chemistry Questions.

For each problem, identify the kind of question BEFORE answering it.

1. A 25 kg ball has a kinetic energy of 225 J. What is the speed of the ball?
What kind of question is this? energy
3 m/s
2. How many molecules of water are there in 100 mL of water? (The density of water = 1.000 g/mL)
What kind of question is this? stoichiometry
 3.34×10^{24} molecules
3. Given that the atomic mass of carbon is given as 12.0107 g/mol, what are the approximate relative abundances of the two isotopes ^{12}C and ^{13}C ? *What kind of question is this? isotopes*
98.93% ^{12}C , 1.07% ^{13}C
4. In the electrolysis of $2\text{H}_2\text{O} \rightarrow 2\text{H}_2 + \text{O}_2$, how many atom of O in O_2 are made from 4 g of H_2O ?
What kind of question is this? stoichiometry
 1.34×10^{23} molecules
5. What are the most likely ionic forms of (a) sodium and (b) calcium?
What kind of question is this? periodic trends
(a) Na^+ ; (b) Ca^{2+}
6. What is the product of a reaction between metallic lithium and oxygen, O_2 ?
What kind of question is this? oxidation numbers
 Li_2O
7. Name the following species: (a) Cl^- , (b) NO_3^- , (c) C_3H_8 . *What kind of question is this? naming*
(a) chloride; (b) nitrate; (c) propane
8. The combustion of ethanol has the following equation: $\text{C}_2\text{H}_5\text{OH} + 3 \text{O}_2 \rightarrow 2 \text{CO}_2 + 2 \text{H}_2\text{O}$
What mass of CO_2 is formed from 1 kg of ethanol? *What kind of question is this? stoichiometry*
1.913 kg
9. Vitamin K contains 78.95% C, 3.95% H, and 21.05% O by mass. What is its empirical formula?
What kind of question is this? empirical formula calculation
 $\text{C}_{20}\text{H}_{30}\text{O}$
10. Given that vitamin K (see question 9) has molecular weight of 158.15 g/mol, what is its molecular formula? *What kind of question is this? molecular formula calculation*
 $\text{C}_{40}\text{H}_{60}\text{O}_2$

High School Chemistry Pretest With Answers

Léo Pomar



High School Chemistry Pretest With Answers:

The High School Teacher, 1925 **Authentic Educating** Robert Leahy, 2009-08-24 In *Authentic Educating* Leahy describes teaching methods that can be used in every discipline and strategies that work in classrooms from elementary to graduate school. Authentic educating integrates several philosophic perspectives to yield theory and practice that encourages high levels of teaching and learning in elementary through graduate school. Authentic educating helps students to understand concepts from mathematics to chemistry to music and language arts in ways that engage them cognitively and emotionally. Authentic educative events are project oriented and include personal and academic products. Projects entail students doing and making things guided by powerful learning tools. Personal products include reaction papers, personal journals, concept maps, performing plays, and constructing Vee diagrams. Academic products include essays, term papers, field journals, exams, concept maps to summarize novels and articles, panel presentations and discussions, and Vees. The aim of this book is to create authentic relationships that resonate within the principles of democracy upon which this country was founded. Readers can gain a deeper understanding of the teaching methods described in this book by viewing the video samples featured on the Authentic Educating website www.authenticeducating.com **Learning readiness** Prem Lata Sharma, 2006

Students' Understanding of Research Methodology in the Context of Dynamics of Scientific Progress Mansoor Niaz, Mayra Rivas, 2016-04-20 This book discusses how to improve high school students' understanding of research methodology based on alternative interpretations of data, role of controversies, creativity, and the scientific method in the context of the oil drop experiment. These aspects form an important part of the nature of science NOS. The study reported in this volume is based on a reflective, explicit, and activity-based approach to teaching the nature of science NOS that can facilitate high school students' understanding of how scientists elaborate theoretical frameworks, design experiments, report data that leads to controversies, and finally, with the collaboration of the scientific community, a consensus is reached. Most students changed their perspective and drew concept maps in which they emphasized the creative, accumulative, controversial nature of science and the scientific method Case Studies in Science Education: The case reports, 1978

Exploring EFL Fluency in Asia T. Muller, J. Adamson, P. Brown, S. Herder, 2014-10-04 In EFL contexts, an absence of chances to develop fluency in the language classroom can lead to marked limitations in English proficiency. This volume explores fluency development from a number of different perspectives, investigating measurements and classroom strategies for promoting its development **Research in Education**, 1974 *Advancing Sustainable Development Goals With Educational Technology* Mobo, Froilan Delute, 2024-12-11 Educational technology plays a vital role in advancing the Sustainable Development Goals (SDGs) by transforming how knowledge is accessed, shared, and applied. By leveraging digital tools and innovative teaching methods, educational technology can promote quality education, reduce inequalities, and support lifelong learning opportunities for all. It enables scalable and inclusive solutions that address global challenges, fostering a

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