

Chemistry – Unit 5 Worksheet 2

1. An old (pre-1987) penny is nearly pure copper. If such a penny has a mass of 3.3 g, how many moles of copper atoms would be in one penny?

$$3.3 \text{ g} \times \frac{1 \text{ mole}}{63.5 \text{ g}} = 5.2 \times 10^{-2} \text{ mol or } 0.052 \text{ mol}$$

2. Four nails have a total mass of 4.42 grams. How many moles of iron atoms do they contain?

$$4.42 \text{ g} \times \frac{1 \text{ mole}}{55.8 \text{ g}} = 7.92 \times 10^{-2} \text{ mol or } 0.0792 \text{ mol}$$

3. A raindrop has a mass of 0.050 g. How many moles of water does a raindrop contain?

$$0.050 \text{ g} \times \frac{1 \text{ mole}}{18.0 \text{ g}} = 2.78 \times 10^{-3} \text{ mol} \rightarrow 2.8 \times 10^{-3} \text{ mol}$$

4. What mass of water would you need to have 15.0 moles of H₂O?

$$15.0 \text{ moles} \times \frac{18.0 \text{ g}}{1 \text{ mole}} = 2.70 \times 10^2 \text{ g}$$

5. One box of Morton's Salt contains 737 grams. How many moles of sodium chloride is this?

$$737 \text{ g} \times \frac{1 \text{ mole}}{58.5 \text{ g}} = 12.6 \text{ mol}$$

Na	23.0
Cl	35.5
	58.5 g

6. A chocolate chip cookie recipe calls for 0.050 moles of baking soda (sodium bicarbonate). How many grams should the chef mass out?

$$0.050 \text{ moles} \times \frac{84.0 \text{ g}}{1 \text{ mole}} = 4.2 \text{ g}$$

Na	23.0
H	1.0
C	12.0
O	48.0
	84.0

7. Rust is iron(III) oxide. The owner of a 1959 Cadillac convertible wants to restore it by removing the rust with oxalic acid, but he needs to know how many moles of rust will be involved in the reaction. How many moles of iron(III) oxide are contained in 2.50 kg of rust?

$$2.50 \text{ kg} \times \frac{1000 \text{ g}}{1 \text{ kg}} \times \frac{1 \text{ mole}}{159.6 \text{ g}} = 15.7 \text{ mol Fe}_2\text{O}_3$$

Fe	111.6
O	48.0
	159.6

Modeling Chemistry Unit 5 Test Key

Lei Huang



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trainers science curriculum specialists advocates of hands on science teaching and concerned parents *Fossil Energy Update*, 1977

Progress in Modeling and Simulation of Batteries John Turner, 2016-06-15 Modeling and simulation of batteries in conjunction with theory and experiment are important research tools that offer opportunities for advancement of technologies that are critical to electric motors The development of data from the application of these tools can provide the basis for managerial and technical decision making Together these will continue to transform batteries for electric vehicles This collection of nine papers presents the modeling and simulation of batteries and the continuing contribution being made to this impressive progress including topics that cover Thermal behavior and characteristics Battery management system design and analysis Moderately high fidelity 3D capabilities Optimization Techniques and Durability As electric vehicles continue to gain interest from manufacturers and consumers alike improvements in economy and affordability as well as adoption of alternative fuel sources to meet government mandates are driving battery research and development Progress in modeling and simulation will continue to contribute to battery improvements that deliver increased power energy storage and durability to further enhance the appeal of electric vehicles

Light Metals 2017 Arne P. Ratvik, 2017-02-10 The Light Metals symposia at the TMS Annual Meeting Exhibition present the most recent developments discoveries and practices in primary aluminum science and technology The annual Light Metals volume has become the definitive reference in the field of aluminum production and related light metal technologies The 2017 collection includes papers from the following symposia Alumina and Bauxite Aluminum Alloys Processing and Characterization Aluminum Reduction Technology Cast Shop Technology Cast Shop Technology Recycling and Sustainability Joint Session Electrode Technology The Science of Melt Refining An LMD Symposium in Honor of Christian Simensen and Thorvald Abel Engh *Report No. FHWA-RD*. United States. Federal Highway Administration. Offices of Research and Development, 1979

Tuberculosis and the Tubercle Bacillus William R. Jacobs, Jr., Helen McShane, Valerie Mizrahi, Ian M. Orme, 2020-07-15 Can today's innovative practices and molecular tools tame this ancient disease One third of the world's population is infected with tuberculosis TB with about 10 million new cases annually To combat TB and its agent Mycobacterium tuberculosis the World Health Organization launched The End TB Strategy which aims to slash the suffering and cost of TB by 2035 This makes the second edition of Tuberculosis and the Tubercle Bacillus edited by Jacobs McShane Mizrahi and Orme an extremely valuable resource for scientists and clinicians The editors have gathered their colleagues from around the world to present the latest on the molecular biology of M tuberculosis and related species the host pathogen interactions that enable invasion and the host's immune response to M tuberculosis infection The basic clinical and translational research presented in this book supports the goals of WHO's End TB Strategy by driving toward the development of effective vaccines rapid molecular diagnostics and anti TB drugs Creating an effective tuberculosis vaccine Understand the innate and adaptive immune response to M tuberculosis infection its study in established animal models and how this information is being used to develop new vaccines against TB Formulating new

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