

[Atomic Structure Worksheet]

- 1 How many protons and neutrons are present in an atom of calcium (Mass number = 40)?

Protons = _____

Neutrons = _____

- 2 How many protons and neutrons are present in an atom of krypton (Mass number = 84)?

Protons = _____

Neutrons = _____

- 3 What is the name, symbol, and charge of an ion that contains 12 protons and 10 electrons?

Name = _____

Symbol = _____

Charge = _____

- 4 What is the name, symbol, and charge of an ion that contains 15 protons and 18 electrons?

Name = _____

Symbol = _____

Charge = _____

- 5 A neutral atom has 85 protons and 125 neutrons. Show calculations wherever necessary.

a What is its atomic number? _____

b What is its mass number? _____

c How many electrons does the atom have? _____

d What is the name of the atom? _____

- 6 Assuming all the atoms have neutral charge, complete the following table using your knowledge on atomic structure.

	Protons	Electrons	Neutrons	Mass number
Atom 1		8	8	
Atom 2			14	28
Atom 3	22			48
Atom 4		47		107
Atom 5		83	126	
Atom 6	87			223

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Chemistry: The Central Science Theodore L. Brown, H. Eugene LeMay Jr., Bruce E. Bursten, Catherine Murphy, Patrick Woodward, Steven Langford, Darius Sagatys, Adrian George, 2013-10-04 If you think you know the Brown LeMay Bursten Chemistry text think again In response to market request we have created the third Australian edition of the US bestseller Chemistry The Central Science An extensive revision has taken this text to new heights Triple checked for scientific accuracy and consistency this edition is a more seamless and cohesive product yet retains the clarity innovative pedagogy functional problem solving and visuals of the previous version All artwork and images are now consistent in quality across the entire text And with a more traditional and logical organisation of the Organic Chemistry content this comprehensive text is the source of all the information and practice problems students are likely to need for conceptual understanding development of problem solving skills reference and test preparation Publications of the National Institute of Standards and Technology ... Catalog National Institute of Standards and Technology (U.S.), 1985 **Prentice Hall Physical Science Concepts in Action Program Planner National Chemistry Physics Earth Science**, 2003-11 Prentice Hall Physical Science Concepts in Action helps students make the important connection between the science they read and what they experience every day Relevant content lively explorations and a wealth of hands on activities take students understanding of science beyond the page and into the world around them Now includes even more technology tools and activities to support differentiated instruction *Organic and Bio-molecular Chemistry - Volume II* Francesco Nicotra, 2009-04-14 Organic And Bio Molecular Chemistry is the component of Encyclopedia of Chemical Sciences Engineering and Technology Resources in the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty one Encyclopedias The Theme on Organic And Bio Molecular Chemistry in the Encyclopedia of Chemical Sciences Engineering and Technology Resources deal with the discipline that studies the molecules of life which are made by carbon atoms and includes also all the synthetic compounds the skeletons of which contain carbon atoms The first chapter describes in general terms for not expert readers what Organic and Bio molecular chemistry is the nature and behavior of organic compounds in living organisms the importance of organic compounds in the market and in our every day life The subsequent chapters are organized in order to provide the reader with information on the structure reactivity analysis and different applications of Organic Compounds These two volumes are aimed at the following five major target audiences University and College students Educators Professional practitioners Research personnel and Policy analysts managers and decision makers and NGOs Solid State Chemistry and Its Applications Anthony R. West, 1991-01-08 The first broad account offering a non mathematical unified treatment of solid state chemistry Describes synthetic methods X ray diffraction principles of inorganic crystal structures crystal chemistry and bonding in solids phase diagrams of 1 2 and 3 component systems the electrical magnetic and optical properties of solids three groups of industrially important inorganic solids glass cement and refractories and certain aspects

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Introduction to Modern Inorganic Chemistry, 6th edition R.A. Mackay, 2017-12-21 This popular and comprehensive textbook provides all the basic information on inorganic chemistry that undergraduates need to know. For this sixth edition, the contents have undergone a complete revision to reflect progress in areas of research, new and modified techniques, and their applications, and use of software packages. Introduction to Modern Inorganic Chemistry begins by explaining the electronic structure and properties of atoms, then describes the principles of bonding in diatomic and polyatomic covalent molecules, the solid state, and solution chemistry. Further on in the book, the general properties of the periodic table are studied along with specific elements and groups such as hydrogen, the s elements, the lanthanides, the actinides, the transition metals, and the p block. Simple and advanced examples are mixed throughout to increase the depth of students' understanding. This edition has a completely new layout, including revised artwork, case study boxes, technical notes, and examples. All of the problems have been revised and extended, and include notes to assist with approaches and solutions. It is an excellent tool to help students see how inorganic chemistry applies to medicine, the environment, and biological topics.

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to unambiguously observe the atomically resolved chemical reactions A great challenge of modern science has been to
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electron source brightness the information content was still limited and new methods for image reconstruction using
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Specific examples are given in this thesis including two photoinduced phase transitions in an organic system a ring closure
reaction and two direct observations of nuclear reorganization driven by spin transitions The emerging field of structural
dynamics promises to change the way we think about the physics of chemistry and this thesis provides tools to make it
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