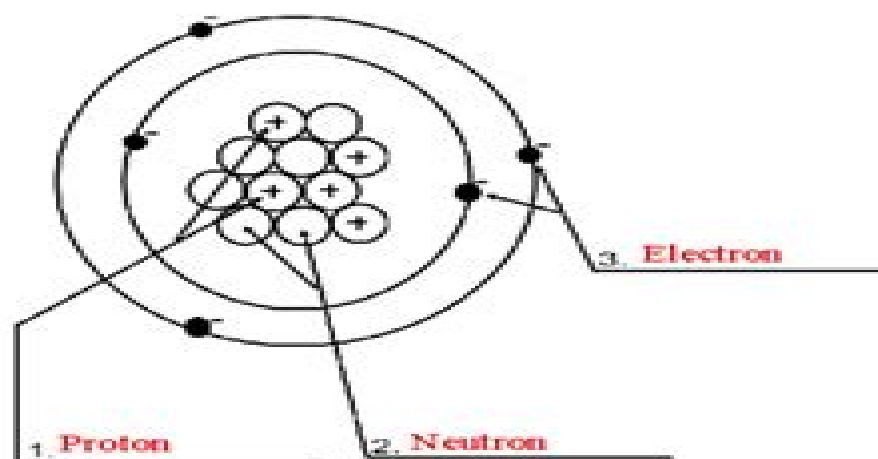


Atomic Structure Worksheet

Label the parts of an atom on the diagram below.



4. What type of charge does a proton have?

Positive (+1)

5. What type of charge does a neutron have?

Neutral (0)

6. What type of charge does an electron have?

Negative (-1)

7. Which two subatomic particles are located in the nucleus of an atom?

Protons and neutrons

8. If an atom has 35 protons in the nucleus, how many electrons will it have orbiting the nucleus?

35

9. What is the atomic number of the atom in the diagram above?

5

10. What is the atomic mass/mass number of the atom in the diagram above?

(11+11=22) *protons and neutrons added together) 22 is the atomic mass/mass number

11. How many protons are in the nucleus of an atom with an atomic number of 15?

15 *number of protons is the same as the atomic number

12. How many electrons are in the nucleus of an atom with an atomic number of 20?

20

13. How many neutrons are in the nucleus of an atom with an atomic number of 25?

(use Periodic Table for mass)
30 Neutrons. atomic mass: 54.938 ~ 55 atomic number: 25.....55-25=30

14. What is the mass number of an atom with 3 protons, 4 neutrons, and 3 electrons?

Mass number= 6.94. (Li-Lithium has an atomic number of 3 which means it has 3 protons.

15. How many neutrons are in the nucleus of an atom that has an atomic mass of 36 and an atomic number of 25?

Neutrons= 11 (atomic mass: 36 - 25 :atomic number)

Atomic Structure Chapter 3 Worksheet Answers

**Samuel N. Namowitz, Nancy E.
Spaulding**



Atomic Structure Chapter 3 Worksheet Answers:

Chemistry (Teacher Guide) Dr. Dennis Englin, 2018-02-26 This book was created to help teachers as they instruct students through the Master's Class Chemistry course by Master Books The teacher is one who guides students through the subject matter helps each student stay on schedule and be organized and is their source of accountability along the way With that in mind this guide provides additional help through the laboratory exercises as well as lessons quizzes and examinations that are provided along with the answers The lessons in this study emphasize working through procedures and problem solving by learning patterns The vocabulary is kept at the essential level Practice exercises are given with their answers so that the patterns can be used in problem solving These lessons and laboratory exercises are the result of over 30 years of teaching home school high school students and then working with them as they proceed through college Guided labs are provided to enhance instruction of weekly lessons There are many principles and truths given to us in Scripture by the God that created the universe and all of the laws by which it functions It is important to see the hand of God and His principles and wisdom as it plays out in chemistry This course integrates what God has told us in the context of this study Features Each suggested weekly schedule has five easy to manage lessons that combine reading and worksheets Worksheets quizzes and tests are perforated and three hole punched materials are easy to tear out hand out grade and store Adjust the schedule and materials needed to best work within your educational program Space is given for assignments dates There is flexibility in scheduling Adapt the days to your school schedule Workflow Students will read the pages in their book and then complete each section of the teacher guide They should be encouraged to complete as many of the activities and projects as possible as well Tests are given at regular intervals with space to record each grade About the Author DR DENNIS ENGLIN earned his bachelor's from Westmont College his master of science from California State University and his EdD from the University of Southern California He enjoys teaching animal biology vertebrate biology wildlife biology organismic biology and astronomy at The Master's University His professional memberships include the Creation Research Society the American Fisheries Association Southern California Academy of Sciences Yellowstone Association and Au Sable Institute of Environmental Studies

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and provide feedback for the same Also consists of numerous tips and tools to improve problem solving techniques for any exam paper Our book can also help in providing a comprehensive overview of important topics in each subject making it easier for students to solve for the exams

Exercises for Principles of Imaging Science and Protection Michael A. Thompson, Steven B. Dowd, Janice D. Hall, Marian P. Hattaway, 1994 A smart collection of additional review questions and practise problems to further reinforce basic concepts The laboratory manual section includes about 30 basic experiments which concentrate more on radiographic factors which affect the quality of the resulting radiograph Readers with a weaker math science background will appreciate the remediation sections and self tests conclude each section to gauge the reader's weaknesses

Earth Science Samuel N. Namowitz, Nancy E. Spaulding, 1989

Holt Chemistry Ralph Thomas Myers, 2004

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

Science of Life: Biology Parent Lesson Plan, 2013-08-01 The Science of Life Biology Course Description This is the suggested course sequence that allows one core area of science to be studied per semester You can change the sequence of the semesters per the needs or interests of your student materials for each semester are independent of one another to allow flexibility Semester 1 Intro to Science Have you ever wondered about human fossils cave men skin color ape men or why missing links are still missing Want to discover when T Rex was small enough to fit in your hand Or how old dinosaur fossils are and how we know the age of these bones Learn how the Bible's world view not evolution's unites evidence from science and history into a solid creation foundation for understanding the origin history and destiny of life including yours In Building Blocks in Science Gary Parker explores some of the most interesting areas of science fossils the errors of evolution the evidences for creation all about early man and human origins dinosaurs and even races Learn how scientists use evidence in the present how historians use evidence of the past and discover the biblical world view not evolution that puts the two together in a credible and scientifically sound way Semester 2 Life Science Study clear biological answers for how science and Scripture fit together to honor the Creator Have you ever wondered about such captivating topics as genetics the roll of natural selection embryonic development or DNA and the magnificent origins of life Within Building Blocks in Life Science you will discover exceptional insights and clarity to patterns of order in living things including the promise of healing and new birth in Christ Study numerous ways to refute the evolutionary worldview that life simply evolved by chance over millions of years The evolutionary worldview can be found filtered through every topic at every age level in our society It has become the overwhelmingly accepted paradigm for the origins of life as taught in all secular institutions This dynamic education resource helps young people not only learn science

from a biblical perspective but also helps them know how to defend their faith in the process

Oxford Smart Activate Chemistry Teacher Handbook (Ebook) Alyssa Fox-Charles, 2025-06-05 Oxford Smart Activate Chemistry Teacher Handbook Ebook has high aspirations for all budding chemists at KS3 Building on what has been learned at KS2 this handbook helps teachers to plan and deliver lessons that immerse learners in the world of chemistry while developing key knowledge and skills towards GCSE Providing support for all teachers specialists and non subject specialists this handbook contains practical suggestions to reactivate prior knowledge trigger student interest and reflect on learning and progress Links between topics sciences and the wider KS3 curriculum are clearly identified Informed by up to date educational research and tried and tested by Pioneer Schools UK to ensure that the teacher guidance is relevant impactful and promoting current pedagogical practice Oxford Smart Activate is the next evolution of the best selling Activate series from editor and curriculum expert Andrew Chandler Grevatt

Problems and Problem Solving in Chemistry Education Georgios Tsaparlis, 2021 Problem solving is central to the teaching and learning of chemistry at secondary tertiary and post tertiary levels of education opening to students and professional chemists alike a whole new world for analysing data looking for patterns and making deductions As an important higher order thinking skill problem solving also constitutes a major research field in science education Relevant education research is an ongoing process with recent developments occurring not only in the area of quantitative computational problems but also in qualitative problem solving The following situations are considered some general others with a focus on specific areas of chemistry quantitative problems qualitative reasoning metacognition and resource activation deconstructing the problem solving process an overview of the working memory hypothesis reasoning with the electron pushing formalism scaffolding organic synthesis skills spectroscopy for structural characterization in organic chemistry enzyme kinetics problem solving in the academic chemistry laboratory chemistry problem solving in context team based active learning technology for molecular representations IR spectra simulation and computational quantum chemistry tools The book concludes with methodological and epistemological issues in problem solving research and other perspectives in problem solving in chemistry With a foreword by George Bodner

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Chapter Resource 2 Chemistry of Life Biology Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2004

AQA Smart GCSE Chemistry: AQA Smart GCSE Chemistry Teacher Handbook Kristy Turner, 2025-09-11 This AQA GCSE Chemistry Teacher Handbook ebook edition has been brought right up to date to meet the needs of today's science teachers Subject and non subject specialists can be confident that this guide gives them what they need to pick up and teach GCSE Chemistry lessons that will have a lasting impact on their students This book is full of clear guidance and explanations including topic overviews common misconceptions key terminology and ideas to help you to relate the content to relevant contexts and students experiences Drawing on insights from current research evidence informed teaching strategies support your professional development Use

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Science Spectrum Holt Rinehart & Winston,Holt, Rinehart and Winston Staff,2003-03 **Science Insights** ,1999

Secondary Teaching Methods Kenneth T. Henson,1981 **The Science Teacher** ,2008 Addison-Wesley Science Insights ,1996 **Te HS&T 2007 Shrt Crs M** Holt Rinehart & Winston,2007 *Holt Science and Technology* Holt Rinehart & Winston,2004-02

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