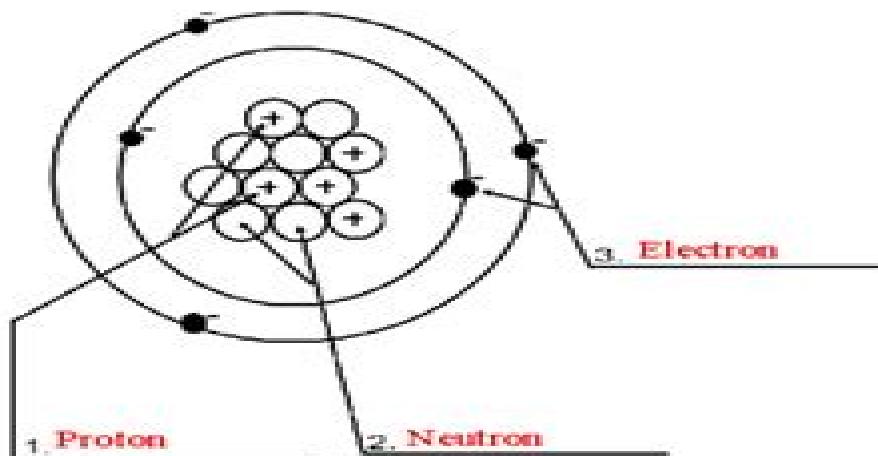


## Atomic Structure Worksheet

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, helping 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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**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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