

[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

Atomic Structure Questions And Answers

**Queensland. Department of Public
Instruction**



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Atomic Theory and Structure of the Atom T. A. H. Peacocke, 2013-10-22 Atomic and Nuclear Chemistry Volume 1 Atomic Theory and Structure of the Atom presents the modern ideas of the atomic theory and atomic structure against the background of their historical development Topics covered include the classification of elements atoms and electrons the wave mechanical model of the atom and the determination of atomic weights This volume is comprised of six chapters and begins by discussing the origin of the atomic theory focusing on the role of John Dalton Avogadro's hypothesis and the introduction to the laws of chemical combination The chapters that follow look at the work of the early scientists that led to the development of the periodic table of elements the use of the Avogadro number to determine the actual masses of atoms and molecules and the structure of the atom The essential results of the simple wave mechanical treatment are summarized in the next chapter This book concludes by considering developments in the determination of atomic weights Some brief notes on the character and personality of the great scientists who are mentioned throughout the text are included This book is intended for students and practitioners in the fields of chemistry and physics

US Solutions Manual to Accompany Elements of Physical Chemistry 7e David Smith, 2017-09-28 The Solutions Manual to Accompany Elements of Physical Chemistry 7th edition contains full worked solutions to all end of chapter discussion questions and exercises featured in the book The manual provides helpful comments and friendly advice to aid understanding It is also a valuable resource for any lecturer who wishes to use the extensive selection of exercises featured in the text to support either formative or summative assessment and wants labour saving ready access to the full solutions to these questions

Revise AS and A2 - Chemistry Rob Ritchie, 2008-10 Revise AS A2 Chemistry gives complete study support throughout the two A Level years This Study Guide matches the curriculum content and provides in depth course coverage plus invaluable advice on how to get the best results in the exams

The Progress of Atomic Theory Albert Cushing Crehore, 1926

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rigorous treatment of electrochemistry chemical equilibrium and thermochemistry Worked examples now number over 300
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