

[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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Simplified ICSE Chemistry Viraf J. Dalal, College Credit Recommendations, 2002

Learning Elementary Chemistry for Class 8 (A.Y. 2023-24) Onward Dr. R. Goel, 2023-05-20 The series Learning Elementary Chemistry for Classes 6 to 8 has been revised strictly according to the latest curriculum The content of this series has been developed to fulfill the requirement of all the six domains Concepts Processes Applications Attitudes Creativity and World view of Science to make teaching and learning of Chemistry interesting understandable and enjoyable for young minds This series builds a solid foundation for young learners to prepare them for higher classes The main strength of the series lies in the subject matter and the experience that a learner will get in solving difficult and complex problems of Chemistry Emphasis has been laid upon mastering the fundamental principles of Chemistry rather than specific procedures Unique features of this series are The content of the book is written in a very simple and easy to understand language All the Key concepts in the curriculum have been systematically covered and graded in the text Each theme has been divided into units followed by thought provoking and engaging exercises to test the knowledge understanding and applications of the concepts learnt in that unit At the end of each theme a comprehensive theme assignment which is aligned with the guidelines provided in National Education Policy NEP 2020 is given Explanations illustrations diagrams experiments and solutions to numerical problems have been included to make the subject more interesting comprehensive and appealing Diagrams illustrations and text have been integrated to enhance comprehension Definitions and other important scientific information are highlighted Throughout the series investigations related to the text enable the learners to learn through experimentation Quick revision of each chapter has been given under the caption Highlights in Review Online Support It provides Video lectures Unit wise interactive exercises Chapterwise Worksheet Solution of textbook questions for Teachers only E Book for Teachers only I hope this series would meet the needs and requirements of the curriculum to achieve the learning outcomes as laid down in the curriculum Suggestions and constructive feedback for the further improvement of the book shall be gratefully acknowledged and incorporated in the future edition of the book Author Biology/science Materials Carolina Biological Supply Company, 1991

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