

General Chemistry Study Guide

Chapters 4-6

Chapter 4

Key Concepts:

-Atomic Structure: The chapter will cover the basics of atomic structure, including the nature of the atom, the types of subatomic particles, and the arrangement of these particles in an atom.

-Electron Configuration: The chapter will explain how electrons are arranged in an atom and how this affects the atom's properties.

-The Periodic Table: The chapter will introduce the periodic table and explain how it is used to predict the properties of elements.

Important Events:

-The Discovery of the Atom: The chapter will cover the history of the atom, including its discovery by Democritus and its further development by scientists such as John Dalton and J.J. Thomson.

-The Development of the Periodic Table: The chapter will trace the history of the periodic table, from its beginnings with the work of Dmitri Mendeleev to its modern form.

Notable Figures:

-Democritus: Democritus was a Greek philosopher who is credited with being the first to propose the existence of atoms.

-John Dalton: Dalton was an English chemist who developed the atomic theory of matter.

-J.J. Thomson: Thomson was a British physicist who discovered the electron.

-Dmitri Mendeleev: Mendeleev was a Russian chemist who developed the periodic table of elements.

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Paul A. Bartlett, Judith G. Koch



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web pressure increases even though there were errors in the experiment the goal of the experiment was met the goal of

declaring what type of relationship it is was clear using the data pressure kpa temperature c temperature k constant k p t 95

82 kpa 16 0 c 289 k 0 33 97 90 kpa 19 0 c 292 k 0 34 98 97 kpa 99 22 kpa 101 4 kpa 19 1 c

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the thermometer and pressure gauge indicate the temperature and the pressure qualitatively the level in the flask indicates the volume and the number of particles in each flask indicates relative amounts

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