

Chemistry I Study Guide Chapters 1-3

Chapter 1

Key Concepts

- 1. What is a molecule?*
- 2. What are the types of molecules?*
- 3. What are the three types of bonds in molecules?*
- 4. What are the four types of molecules?*
- 5. What are the five types of molecules?*
- 6. What are the six types of molecules?*
- 7. What are the seven types of molecules?*
- 8. What are the eight types of molecules?*
- 9. What are the nine types of molecules?*
- 10. What are the 10 types of molecules?*

Important Events

- 1. In 1827, Friedrich Wöhler synthesized urea from carbons and hydrogens.*
- 2. In 1828, Justus von Liebig isolated and identified nitrogen as a component of organic compounds.*
- 3. In 1828, Michael Faraday discovered that electricity and magnetism are related.*
- 4. In 1831, Friedrich Wöhler synthesized ammonia from nitrogen and hydrogen.*
- 5. In 1835, Jean-Baptiste Dumas and Michel Eugène Chevreul identified sulfur as a component of organic compounds.*
- 6. In 1839, Friedrich Wöhler synthesized glycerin from fats and water.*
- 7. In 1841, John Dalton proposed that all elements are made of atoms of the same type.*
- 8. In 1844, Lewis Paul and John Dalton independently proposed that the elements are arranged in a periodic table.*
- 9. In 1845, Friedrich Wöhler synthesized urea from carbon and hydrogen.*
- 10. In 1851, Louis Pasteur demonstrated that fermentation is caused by bacteria.*

Notable Figures

- 1. Justus von Liebig*
- 2. Friedrich Wöhler*
- 3. Michael Faraday*
- 4. Jean-Baptiste Dumas*
- 5. John Dalton*
- 6. Lewis Paul*
- 7. Friedrich Wöhler*

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B Lingard



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remaining chapters examine the solutions acids bases salts oxidation reduction reactions electrochemistry chemical kinetics and equilibrium and nuclear organic and biological chemistry This study guide will be of great value to chemistry teachers and students

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