

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*

Chemistry Chapter 1 Study Guide

James R. Braun, Sherman



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