

# Chemistry I Study Guide Chapters 1-3

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## 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 Concepts Applications Chapter 12 Study Guide

**Michal Rosen-Zvi**



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