

# Chemistry Syllabus Summary

---

**Scan this list of topics.** Welcome to Honeycutt Science – Chemistry. The curriculum you will encounter this school year includes a spectrum of life science subject areas. Material for each topic is found at [HoneycuttScience.com](http://HoneycuttScience.com). While scanning the list, recall information you might already know about each topic – then anticipate what new information you might encounter. This exciting journey starts now ...

- Chemistry 11 Welcome to Chemistry
- Chemistry 12 Nature of Matter
- Chemistry 13 Properties of Matter
- Chemistry 14 The Elements
- Chemistry 15 Using the Periodic Table
- Chemistry 16 Naming Binary Compounds
- Chemistry 17 Naming and Writing Formulas
- Chemistry 18 Scientific Notation and Units
- Chemistry 19 Atoms and Moles
- Chemistry 21 Formulas of Compounds
- Chemistry 22 Evidence for Chemical Reaction
- Chemistry 23 Reactions in Aqueous Solutions
- Chemistry 24 Classifying Reactions
- Chemistry 25 Using Chemical Equations
- Chemistry 26 Limiting Reactants and Percent Yield
- Chemistry 27 Energy Temperature and Heat
- Chemistry 28 Using Energy in the Real World
- Chemistry 31 Atoms and Energy
- Chemistry 32 Atomic Orbitals
- Chemistry 33 Characteristics of Chemical Bonds
- Chemistry 34 Lewis Structures
- Chemistry 35 Describing the Properties of Gases
- Chemistry 36 Using Gas Laws to Solve Problems
- Chemistry 37 Using a Model to Describe Gases
- Chemistry 38 Forces and Phase Changes
- Chemistry 39 Vapor Pressure and Boiling Point
- Chemistry 41 Properties of Solids
- Chemistry 42 Student Research (Solutions)
- Chemistry 43 Solution Composition and Properties
- Chemistry 44 Plasma Gas Liquid Solid (Not)
- Chemistry 45 Acids and Bases
- Chemistry 46 Equilibrium
- Chemistry 47 Oxidation-Reduction Reactions
- Chemistry 48 Organic Chemistry

Below, find a list of Techniques and Activities which may additionally be covered during this year's curriculum. These too are available for your investigation and review at the Honeycutt Science web site.

### Use Diagrams/Models to Convey Science Info

- Activity 20 Venn Diagrams & Relationship
- Activity 21 Hierarchy and Pyramid
- Activity 22 Process and Cycle
- Activity 23 Matrix and List

### Techniques for the General Classroom and Science

- Technique 10 How to Read Complex Text
- Technique 11 How to Summarize Information
- Technique 12 The Scientific Method
- Technique 13 21st Century (4Cs)
- Technique 14 Critical Thinking
- Technique 15 Creative Concepts
- Technique 16 Collaboration
- Technique 17 Communication
- Technique 18 Debate in the Classroom
- Technique 19 Personal Reflection
- Technique 20 Lab Measure and Convert
- Technique 21 Devise Experiments
- Technique 22 Data Gathering
- Technique 23 Graphing and Charting Data
- Technique 24 Interpret Results
- Technique 25 Use and Care of Equipment
- Technique 26 Lab Safety
- Technique 27 Lab Procedures

### ----- (continued)

- Technique 27 Lab Procedures
- Technique 30 Recognizing Phenomena
- Technique 31 Evaluating Phenomena
- Technique 32 Making Connections
- Technique 70 Overview
- Technique 71 Two/Three-Circle Venn
- Technique 72 Scale/Timeline
- Technique 73 Thought Web
- Technique 74 Cluster
- Technique 75 Fact vs. Opinion
- Technique 76 Pros-Cons
- Technique 77 Five W's
- Technique 78 Flowchart/Cycle
- Technique 79 KWL/KWHL