



New Course FACT Sheet 2024-2025

Course Title: Chemistry

Teacher Contact Information:

- I can be reached by emailing agreen@wearetherockofcf.org or texting **321-750-9511**.
- I frequently check both, so you can expect a reply within 24 hours if not sooner.

Course Overview:

- Chemistry is a high school course integrating weekly lab exercises, biographical sketches of Christian scientists, and mathematical proficiency at the algebra level.
- It is very possible that our study will reveal the answers to all your questions about life: Why is the sky blue? Why is water wet? Why does lye burn a person's face off? and many more!

Necessary Supplies: <https://www.therockacademyfl.com/copy-of-biology-i-hs>

- *Apologia Exploring Creation with Chemistry 3rd Edition* **Textbook** and Student **Notebook**
- A set of **24 colored pencils**
- **1-inch 3-ring binder**
- 3-holed **pencil pouch**
- **Scissors**

The Successful Student:

- Arrives on time with all of his/her necessary supplies.
- Completes daily assignments in the Student Notebook and **BRINGS THEM TO CLASS**.
- Contacts me **SOONER** than **LATER** regarding questions about homework or tests.
- Pays attention to the corrections made to their assignments during class.
- Uses the TOOLS I've provided (**colored comments**, **graphic organizers**, **AndyGreenTeacher QUIZLET study sets**, etc.) as he/she studies for tests.

The Successful Parent:

- Checks FACTS every week—all year long!
- Communicates in a timely manner with questions or concerns.
- Seeks out support and help needed for a struggling student.

Homework Policy:

- If homework is not complete when it comes time to check it in class, it will **receive an immediate zero**.
- If it is emailed, texted, or turned in anytime during the next week, **10% will be deducted** from the total grade a student has earned.
- Tests and assignments not received by the second week will **keep the zero** given the day the assignment was due.



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Chemistry Week-by-Week Overview			
Semester I		Semester II	
Week 1	INTRODUCTION	Week 19	Module 8--Stoichiometry
Week 2	The Nature of Science and Identifying and Recognizing Bias	Week 20	Balancing Chemical Equations and Identifying and Manipulating Stoichiometric Coefficients
Week 3	The Metric System, Experimental Design, and Graphing Basics	Week 21	Limiting Reactants, Volume and Mass in Chemical Equations, and Formulas
Week 4	Module 1—Measurement, Units, and the Scientific Method	Week 22	Module 9—Acid-Base Chemistry
Week 5	Metric System, Accuracy, Precision, Significant Figures, Scientific Notation	Week 23	Characteristics, Definitions, and Behavior of Acids and Bases
Week 6	Module 2—Atoms and Molecules	Week 24	Module 10—The Chemistry of Solutions
Week 7	Law of Mass Conservation, Elements, Compounds, Molecules, Classifying Matter	Week 25	Solubility, Effects of Temperature on Gases and Solids, Molality, Freezing-Point Depression
Week 8	Module 3—Atomic Structure	Week 26	Module 11—The Gas Phase
Week 9	Electrical Charge, Protons, Neutrons, Electrons, Isotopes, Models of Atoms	Week 27	Definition of Pressure, Boyle's and Charles' Laws, Ideal Gases, Ideal Gas Law
Week 10	Module 4—Molecular Structure	Week 28	Module 12—Energy, Heat, and Temperature
Week 11	Electron Configuration, Periodic Table, Electronegativity, Atomic Radius	Week 29	First Law of Thermodynamics, Calorimetry, Units of Measuring Heat and Energy
Week 12	Module 5—Polyatomic Ions and Molecular Geometry	Week 30	Module 13—Thermodynamics
Week 13	VSEPR Theory, Polar and Nonpolar Covalent Bonds, Comparing Solubility	Week 31	Enthalpy, Hess's Law, Energy Diagrams, Second Law of Thermodynamics, Application
Week 14	Module 6—Changes in Matter	Week 32	Module 14—Kinetics
Week 15	Chemical and Physical Changes, Density, Kinetic Theory, Chemical Equations	Week 33	Concentration and Temperature in Reaction Rates, Rate Orders and Equations, Catalysts,
Week 16	Module 7—Describing Chemical Reactions	Week 34	Module 15—Chemical Equilibrium
Week 17	Decomposition, Formation, and Combustion Reactions, Molecular and Atomic Mass	Week 35	Equilibrium Constant, Le Chatelier's Principle, Acid-Base Equilibria, pH Scale
Week 18	Holiday Break	Week 36	Summer Break

This schedule is an overview. TRA reserves the right to make changes during the school year.