

## Chemistry Honors - Year at a Glance

Course # 2003350

**A Note to Parents:** State standards require your child's science teacher to plan lessons that build knowledge of various scientific concepts, develop the ability to apply these concepts, and engage students in critical thinking. To achieve these goals, students will take part in a range of activities including reading, discussions, writing, lab activities and projects, and more. Safety is paramount in science labs and your child's teacher will ensure a safe learning environment.

### **What is the purpose of this course?**

- A challenging course that studies the composition and changes associated with matter.
- Math is an integral part of the course.

### **What will students be learning in this course?**

<b>Topics</b>	
Quarter 1	<ul style="list-style-type: none"><li>• The Nature of Science</li><li>• Matter and Energy</li><li>• Physical/Chemical Properties and Changes</li><li>• The Atom</li></ul>
Quarter 2	<ul style="list-style-type: none"><li>• The Electromagnetic Spectrum</li><li>• Energy Quantization</li><li>• The Periodic Table</li><li>• Writing and Naming Chemical Formulas</li><li>• Molecular Geometry</li></ul>
Quarter 3	<ul style="list-style-type: none"><li>• Types of Chemical Reactions</li><li>• Solutions</li><li>• Stoichiometry</li></ul>
Quarter 4	<ul style="list-style-type: none"><li>• Gas Laws</li><li>• Acids and Bases</li><li>• Chemical and Nuclear Reactions</li><li>• Half Life</li></ul>

### **Possible Support Resources**

Tyler DeWitt videos: <https://www.youtube.com/channel/UCj3EXpr5v35g3peVWnVLoew>

Student tutorials: <https://www.floridastudents.org/#29|0|0|0>

Bozeman Science videos: <http://www.bozemanscience.com/>

Schoology: the teacher's site will have assignment information.

*Courses are designed so that all standards will be learned by the end of the course. This guide represents a recommended timeline and sequence to be used voluntarily by teachers for planning purposes. Specific questions regarding when content will be addressed in a specific course are best answered by the individual teacher.*