

## Appendix C

### Honors Chemistry Semester Schedule

Period	Chapter	Topic
1	1	Chemistry Introduction; Periodic Table and the Elements; Scientific Method
2	2	Standards for Measurement
3	2	Units of Scientific Measurement
4	2	Using Scientific Measurements
5		Density Block Activity: Xanadu Rock
6	1&2	Test
7		Ob-Scertainer Activity: Xanadu Behavioral Sciences
8	3	Matter Defined; State of Matter; Elements
9	3	Atomic Structure; Isotopes
10	3	Counting Atoms: Average Atomic Mass
11		Foam Atom Model: Xanadu Unidentified Substance Group
12	4	Properties of Matter
13	4	Physical and Chemical Changes
14	4	Quantitative Measurement of Heat
15	3&4	Test
16		Atomic Force Macroscope: Xanadu Instrument Testing Group
17	5	Early Atomic Theory
18	5	Subatomic Particles; Isotopes
19	10	Electromagnetic Radiation
20		Light Demonstration
21		Flame Test (Not one of the research activities)
22	10	The Quantum Model of the Atom
23	10	Electron Configuration
24		Mystery of the Periodic Table (Not one of the research activities)
25	5&10	Test
26		Test Mass Spectrometer: Xanadu Elemental Discovery Group
27	11	Periodic Trends
28	11	Lewis Structures of Atoms
29	11	Ionic Bonding
30	11	Covalent Bonding
31		Bonding Foam Atom Model: Xanadu Compound Research Group
32	11	Lewis Structures of Compounds
33	11	Molecular Geometry; VSEPR Theory
34	11	Test
35		Qualitative Analysis of 11 Unknowns: Xanadu Substance Identification Unit
36	6	Nomenclature of Inorganic Compounds
37	6	Writing Chemical Formulas
38	6	Test
39	1-6, 10, 11	Review
40	1-6, 10, 11	Review
		Midterm

### General Chemistry Semester Schedule

Period	Chapter	Topic
1	1	Chemistry is a Physical Science; Periodic Table and the Elements
2	1	Matter and Its Properties; Carbon Soufflé Demonstration
3		Element, Compound, or Mixture Activity: Xanadu Materials Laboratory
4	1	Test
5	2	Scientific Method
6		Ob-Scertainer Activity: Xanadu Behavioral Sciences
7	2	Units of Scientific Measurement
8	2	Using Scientific Measurements
9		Density Block Activity: Xanadu Rock
10	2	Test
11	3	The Atomic Theories
12		Foam Atom Model: Xanadu Unidentified Substance Group
13	3	Atomic Structure; Isotopes
14	3	Counting Atoms: Average Atomic Mass
15		Atomic Force Macroscope: Xanadu Instrument Testing Group
16	3	Molar Mass Concepts
17	3	Avogadro's Number
18	3	Test
19	4	New Atomic Model
20	4	Light Demonstration
21		Mass Spectrometer: Xanadu Elemental Discovery Group
22	4	The Quantum Model of the Atom
23	4	Electron Configuration
24		Imaginary House (Not one of the research activities)
25	4	Test
26	5	History of Periodic Table
27	5	Electron Configuration and the Periodic Table
28		Mystery of the Periodic Table (Not one of the research activities)
29	5	Electron Configuration and Periodic Properties
30		Bonding Foam Atom Model: Xanadu Compound Research Group
31	6	Introduction to Chemical Bonding
32	6	Covalent Bonding
33	6	Ionic Bonding
34	6	Metallic Bonding
35	6	Molecular Geometry: VSEPR Theory
36		Qualitative Analysis of 11 Unknowns: Xanadu Substance Identification Unit
37	6	Test
38	1-6	Review
39	1-6	Review
40		Midterm