HONORS CHEMISTRY SYLLABUS AND TEST SCHEDULE

Textbook: Chemistry (Wilbraham)

 Review books: Brief Review in Chemistry: The Physical Setting (Prentice Hall) To order call: 1-800-848-9500 Student edition: 0-13-251116-9 Answer key: 0-13-251122-3 Note: The major units follow the sequence in most review books.

There will be a cumulative exam the last week of every marking period. There is also a midterm at the end of the second quarter.

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| Unit | Test | Wilbraham Chapters | Review Book Units |
| The Atom | Test 1: Introduction to chemistry, matter and math reviewTest 2: The Atom and electron configuration | Chapters 1,2, and 3Chapters 4 and 5 | Chapter 1 (pp.14-15),4 (pp.5-58) and appendix 3 Chapter 1 (pp.1-14) |
| Formulas and Equations | Test 3: Formulas and math of formulasTest 4: Equations and math of equations | Chapters 9 and 10Chapter 11 and 12) | Chapters 2 (pp. 21-26)and 3 (pp. 37-41)Chapters 2 (pp. 27-32)and 3 (pp. 41-43) |
| Physical behavior of matter | Test 5: Phases and phase changesTest 6: Gas Laws | Chapter 13Chapter 14 | Chapter 4 (pp.45-52)Chapter 4 (pp. 53-56) |
| Periodic Table | Test 7: Periodic Table | Chapter 6 | Chapter 5 |
| Chemical Bonding  | Test 8: Ionic and covalent Bonding | Chapters 7 and 8 | Chapter 6 |
| Properties of Solutions | Test 9: Solutions | Chapter 16 | Chapter 7 |
| Kinetics and equilibrium | Test 10: Reaction ratesTest 11: Chemical equilibrium | Chapters 17 and 18.1Chapters 18.2-18.4 | Chapter 8 (pp. 109-114, 118-120)Chapter 8 (pp. 114-117, 120-121) |
| Acids, bases and salts | Test 12: Acids, bases and salts | Chapter 19 | Chapter 10 |
| Oxidation and Reduction | Test 13: Redox and electrochemistry | Chapters 20 and 21 | Chapter 9 |
| Organic Chemistry | Test 14: Organic compounds and organic reactions | Chapters 22 and 23 | Chapter 11 |
| Nuclear Chemistry | Test 15: Natural and artificial radioactivity | Chapter 25 | Chapter 12 |