**Chemistry I – Standard Spring 2017**

**Pacing Guide: 1/25/2017 – 2/17/2017**

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| **Date** | | **Classwork** | **Homework** |
| 1/25 | W | **Welcome to Chemistry**!  Pass out Course Syllabus / Info Sheets / Ref Sheet  Pass out Introductory Concepts Notes  Notes – Sci. Not. & Basic Algebra Skills  Set-up Gizmo account | Read Syllabus with Parent/Guardian  Complete Sci. Not. & Basic Algebra worksheet (what was not completed in class) |
| 1/26 | H | Notes – Metric System of Units   * English vs. Metric System * Metric system equivalences   Group Work: Metric Conversions Problem Set | Metric Conversions PS |
| 1/27 | F | Notes – Factor-Label Conversions   * Dimensional Analysis & Factor-Label Method * Activity: Unit Conversions   Group Work: Factor-Label Problem Set | Factor-Label PS |
| 1/30 | M | Notes – Chemistry Basics   * Classification of Matter * 35 Most Common Elements   Group Work: Classification of Matter PS | Classification of Matter |
|  | Enrichment – Notebook Set-up and Expectations: Bring Notebook, Dividers, and notebook paper | | |
| 1/31 | T | Notes – Chemistry Basics   * Polyatomic Ions * Data Analysis   Class Activity: Making a Graph  Group Work: Interpreting Graphs | Interpreting Graphs PS |
| 2/1 | W | Independent Work: POGIL Organizing Data  *Turn-in independent work at end of class*  Pass out Introductory Concepts Study Guide | Start Intro Concepts Study Guide  Review for Quiz |
| 2/2 | H | **Quiz – Introductory Concepts**  Review Introductory Concepts  Pass out Unit 1 Reading Guide / Unit 1 Notes  Intro Concepts Work Day | Unit 1 Reading Assignment #1  Complete Intro Concepts Study Guide |
| 2/3 | F | Review Intro Concepts Quiz  Notes – Atomic Theory   * Development of Modern Atomic Theory * Atomic Symbol Representations (Ex. Sets #1/#2)   Group Work: Atomic Structure Practice #s 1-10 | Atomic Structure Practice #s 1-10  Unit 1 Reading Assignment #2 |
| **Date** | | **Classwork** | **Homework** |
| 2/6 | M | Notes – Atomic Theory: Ions   * Example Set #3 * POGIL: Ions Model 1   Group Work: Atomic Structure Practice #s 11-20 | Review for Test |
|  | Enrichment – POGIL: Polyatomic Ions (Models 1 &2) | | |
| 2/7 | T | **Test – Introductory Concepts**  After test: Complete Unit 1 Reading Assignment #3 | Unit 1 Reading Assignment #3 |
| 2/8 | W | Notes – Average Atomic Mass  Group Work: Beanium Lab  Independent Work: Average Atomic Mass PS | AAM PS  Unit 1 Reading #4 |
| 2/9 | H | Notes – Nuclear Chemistry   * Introduction to Nuclear Chemistry * Nuclear Chemistry in the Read World   Class Discussion: U1 Reading Guide #5 | Unit 1 Reading #5 |
| 2/10 | F | Notes – Nuclear Chemistry   * Nuclear Reaction Prediction * Gizmo: Nuclear Decay   Group Work: Nuclear Reaction Prediction | Nuc. Reaction Pred.  Unit 1 Reading #6 |
| 2/13 | M | Notes – Nuclear Chemistry   * Half-Life * Gizmo: Half-Life Part B   Group Work: Half-Life worksheet  Pass out Unit 1 Study Guide | Half-Life worksheet  Review for Quiz  Start Unit 1 Study Guide |
|  | Enrichment – Gizmo: Half-Life Part A / Student-Teacher Conferences (Unit 0) | | |
| 2/14 | T | **Quiz – Atomic Theory & Nuclear Chemistry**  Unit 2 Reading Guide Assignment #1  Notes – Quantum Theory   * Development of Modern Quantum Theory * The EM Spectrum   IW: POGIL: Electron Energy & Light (M1)  Group Work: EM Spectrum PS #1 | EM Spectrum PS #1 |
| 2/15 | W | EM Spectrum PS #2  Gizmo: Introduction to Bohr | EM Spectrum PS #2 |
| 2/16 | H | Unit 2 Reading Guide Assignment #2  Notes – Bohr Diagrams  Group Work: Bohr Diagrams PS | Review for Test |
| 2/17 | F | **Test – Atomic Theory & Nuclear Chemistry**  After Test: Bohr Diagrams PS | Bohr Diagrams PS |
| 2/20 | M | **No School – Teacher Workday** |  |
|  | Enrichment – Gizmo: Bohr Diagram of the Hydrogen Atom / STC (Unit 1) | | |
| 2/21 | T | Unit 2 Reading Guide Assignment #3  Notes – Structure of the Electronic Cloud   * Heisenberg Uncertainty Principle * Orbital Diagrams |  |
| 2/22 | W |  |  |
| 2/23 | H |  |  |
| 2/24 | F |  |  |
| 2/27 | M |  |  |
|  | Enrichment – | | |
| 2/28 | T |  |  |
| 3/1 | W | **CMS Early Release Day** |  |
| 3/2 | H |  |  |
| 3/3 | F |  |  |