**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 SheetPass out Introductory Concepts NotesNotes – Sci. Not. & Basic Algebra SkillsSet-up Gizmo account | Read Syllabus with Parent/GuardianComplete 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 GraphGroup 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 GuideReview for Quiz |
| 2/2 | H | **Quiz – Introductory Concepts**Review Introductory ConceptsPass out Unit 1 Reading Guide / Unit 1 NotesIntro Concepts Work Day | Unit 1 Reading Assignment #1Complete Intro Concepts Study Guide |
| 2/3 | F | Review Intro Concepts QuizNotes – 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 1-10Unit 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 MassGroup Work: Beanium LabIndependent Work: Average Atomic Mass PS | AAM PSUnit 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 worksheetPass out Unit 1 Study Guide  | Half-Life worksheetReview for QuizStart 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 #1Notes – 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 #2Gizmo: Introduction to Bohr | EM Spectrum PS #2 |
| 2/16 | H | Unit 2 Reading Guide Assignment #2Notes – Bohr DiagramsGroup 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 #3Notes – Structure of the Electronic Cloud* Heisenberg Uncertainty Principle
* Orbital Diagrams
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| 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 |  |  |