

Chemistry Course 1 Atomic Theory & Periodic Law Proficiency Sheet Part 1

| Lessons | Topics | Learning Target | Activities | Score/% | Date Passed |
|----------------------------------------------|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|---------|-------------|
| Lesson 1.1a Atomic Models | a. History of Atomic Models | I can evaluate merits and limitations of different models of the atom in relation to size, charge, and position of protons, neutrons, and electrons in the atom. | History of Atomic Models Pretest | | |
| | | | Atomic Theory Timeline Project | | |
| | | | Atomic Model Project | | |
| | | | History of Atomic Models Post test | | |
| Lesson 1.2b Protons & Element Identity | b. Protons & Element Identity | I can construct an argument to support the claim that the proton defines the element's identity. | Protons & Element Identity Pretest | | |
| | | | Atomic Structure Video Review | | |
| | | | Atomic Structure Interactive Activity | | |
| | | | Atomic Structure Review | | |
| | | | Protons & Element Identity Post test | | |
| Lesson 1.3 Periodic Table | Periodic Table | I can analyze and interpret data to determine number of valence electrons, types of ions formed by main group elements, location and properties of metals, nonmetals, and metalloids, and phases at room temperature. | Periodic Table Pretest | | |
| | | | Periodic Table Video Notes | | |
| | | | Periodic Table Valence e-, Charge, Periods Interactive Activity | | |
| | | | Periodic Table Review | | |

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| | | | Periodic Table Gallery Walk | | |
| | | | Periodic Table Post test | | |
| Lesson 1.3 Periodic Table | Periodic Table Trends | I can analyze and interpret data to determine number of valence electrons, types of ions formed by main group elements, location and properties of metals, nonmetals, and metalloids, and phases at room temperature. | Periodic Table Trends Pretest | | |
| | | | Periodic Table Trends Video Notes | | |
| | | | Periodic Table Metals, Nonmetals, Metalloids Interactive Activity | | |
| | | | Periodic Table Groups & Families Interactive Activity | | |
| | | | Periodic Table Web quest | | |
| | | | Periodic Table Groups Poster Project | | |
| | | | Periodic Table Triangle Trivia Game | | |
| | | | Periodic Table Trends Post Test | | |
| Lesson 1.3 Element Production via Nuclear Fusion | Element Production via nuclear fusion | I can construct an explanation based on scientific evidence of the production of elements heavier than hydrogen by nuclear fusion. | Nuclear Energy Pretest | | |
| | | | Nuclear Fission vs. Nuclear Fusion Video Notes | | |
| | | | Nuclear Fission vs. Fusion Reading for Meaning Interactive Activity | | |
| | | | Nuclear Fission vs. Fusion POGIL | | |
| | | | Nuclear Fission vs. Fusion Cereal Lab Activity | | |
| | | | Nuclear Energy Post test | | |

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