

RCS High School Science Unit Plans

Subject: Chemistry

Unit: Atomic Structure & The Periodic Table – Unit 3

of Days : 9-11

Essential Standards : 1.1

Clarifying Objective: 1.1.1, 1.1.2, 1.1.3, 1.1.4

Big Ideas in NOUNS and ADJECTIVES (Vocabulary)	Real World Performance in VERBS
Understanding(s): See unit plan	Essential Questions/I Can Statements: See Unit Plan
Performance Task Ideas/Activities: Electron configuration battleship 3D Period Trends (Straws)/Trend Graphing on Computer Spectra Lab/Activity/Demo Skittles Half Lives	Websites: www.chem-toddler.com PHET Simulations <ol style="list-style-type: none">1. Alpha Decay2. Beta Decay3. Build an Atom4. Isotopes and Atomic Mass5. Nuclear Fission6. Rutherford Scattering www.chemthink.com http://www.youtube.com/watch?v=kTIODLwJdIs (Periodic Table video from Charlene’s Student – 45min)
Literacy Shift Ideas: (Reading/writing) Write 1 pg on everything you know about the atom Formation of Elements from universe Ethics with nuclear	21 st Century Themes <ul style="list-style-type: none">○ Global Awareness○ Financial, Economic, Business & Entrepreneurial Literacy○ Civic Literacy○ Health Literacy○ Environmental Literacy
Assessments Atomic Structure/Isotopes quiz Electron configuration Quiz Nuclear Chemistry Quiz Unit Test	Additional Info:

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