

Jefferson City Public Schools–Curriculum

SUBJECT: Elementary

COURSE: EER

STRAND: Chemistry is ELEMENTary

Objectives	Assessment/Evaluation	Instructional Activities
(A) Explore the stages of matter Performance: 1.1, 2.1, 3.1, 4.1 Knowledge: (CA) 1,3,4 (MA) 1,3,6 (H/PE) 5 (SC) 1,7 CAGLE: R.1.E (gr. 6), R.1.H (gr. 8), W.2.Da (gr. 5) MAGLE: NO.1.C (gr. 5) SCGLE: SC1.1.A,B (gr. 6), SC7.1.A,C-E (gr. 6), SC7.1.B (gr. 7) HEGLE: RAR.2.B (gr.5)	- Nature of Matter experiment conclusion sheet - Lose Some Mass - It's a Gas Experiment sheet	- Matter, and What is Matter information sheet - Making ice cream in baggies experiment - Nature of Matter experiment - Lose Some Mass - It's a Gas Experiment
(B) Determine what (a) chemist/chemistry is Performance: 1.1, 2.1, 3.1, 4.1 Knowledge: (CA) 1,3,4 (MA) 1,3,6 (H/PE) 5 (SC) 1,7 CAGLE: R.1.E (gr. 6), R.1.H (gr. 8), W.2.Da (gr. 5) SCGLE: SC7.1.A,C-D (gr. 6), SC7.1.Ba-f (gr. 7), SC8.2.B (gr. 6-8)	Yeast Balloons experiment conclusion sheet	- What is Chemistry? background sheet - Chemistry Careers sheet - Browsing Biochemistry background sheet - Yeast Balloons experiment
(C) Construct atom and molecule models Performance: 1.1, 2.1, 3.1, 4.1 Knowledge: (CA) 1,3,4 (MA) 1,3,6 (SC) 1,7 CAGLE: R.1.E (gr. 6), W.2.Da (gr. 5) MAGLE: NO.1.A (gr. 5) SCGLE: SC1.1.F (gr. 8), SC8.2.B (gr. 6-8)	- Construction of cotton ball atom models - Construction of gumdrop molecules	- The Greek Atomists (atom background) sheet - Orbital Basics sheet - Atom's Family song - Inside the Atom background sheet - Creating cotton ball atom models - Construction of gumdrop molecules - Bonding Basics background sheet - What are Molecules background sheet
(D) Evaluate solutions, mixtures, crystals and alloys Performance: 1.1, 2.1, 3.1, 4.1 Knowledge: (CA) 1,3,4; (MA) 1,3,6; (H/PE) 5; (SC) 1,7 CAGLE: R.1.E (gr. 6), R.1.H (gr. 8), W.2.Da (gr. 5) HEGLE: RAR.2.B (gr. 5) MAGLE: NO.1.C (gr. 5) SCGLE: SC1.1.B-D (gr. 6), SC1.1.Ga,b (gr. 6), SC7.1.A,C-D (gr. 6), SC7.1.Ba-f (gr. 7)	- Liquid Layers experiment conclusion sheet - All Mixed Up experiment conclusion sheet - Crystal Writing experiment conclusion sheet	- Solution and Mixtures background sheet - Liquid Layers experiment - All Mixed Up experiment - Crystals and Alloys background sheet - Crystal Writing experiment

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(E) Create chemical changes Performance: 1.1, 2.1, 3.1, 4.1 Knowledge: (CA) 1,3,4 (MA) 1,3,6 (H/PE) 5 (SC) 1,7 CAGLE: R.1.E (gr. 6), R.1.H (gr. 8), W.2.Da (gr. 5) HEGLE: RAR.2.B (gr. 5) MAGLE: NO.1.C (gr. 5) SCGLE: SC1.1.Ga,b (gr. 6), SC1.2.Fa,b (gr. 7), SC7.1.A,C-D (gr. 6), SC7.Ba-f (gr. 7)	• Copper Nail experiment conclusion sheet • Balloon Blowup experiment conclusion sheet • Equilibrium experiment conclusion sheet • Natural Pigments and Chemical Reactions experiment conclusion sheet • Outrageous Ooze experiment conclusion sheet • Heat Up to Some Cool Reactions experiment conclusion sheet • Lose the Indicator Blues experiment conclusion	• Chemical Reactions background sheet • Balloon Blowup experiment • Amalgams and Emulsions background sheet • Copper Nail experiment • Batteries/Energy to Go experiment • Basics and Equilibrium background sheet • Equilibrium experiment • Natural Pigments and Chemical Reactions experiment • Rates of Reactions background sheet • Outrageous Ooze experiment • Heat Up to Some Cool Reactions experiment • Acids and Bases are Everywhere background sheet • Lose the Indicator Blues experiment
(F) Research the Periodic Table of Elements Performance: 1.1, 2.1, 3.1, 4.1 Knowledge: (CA) 1,3-6; (MA) 1,3,6; (FA) 1; (SC) 1,7 CAGLE: R.1.E (gr. 6), R.1.H (gr. 8), W.2.A (gr. 6), W.2.Da (gr. 5), W.2.Ca-c (gr. 6) MAGLE: NO.1.C (gr. 5) SCGLE: SC1.1.F (gr. 8), SC8.2.A (gr. 6-8) SCCLE: SC1.1.Eb (Chemistry I) SSGLE: TSSI.7.A (gr. 5-8) NETS: 5, 8	• Element trading card assignment • Scoring guide assessment • Adopt an Element poster • Adopt an Element presentation to parents	• Electrons, Neutrons and Protons sheet • Atomic Number/Atomic Weight sheet • Puns about Elements • Periodic Table Concentration • Periodic Table Bingo • Element Trading Cards - research • Adopt an Element project - research
(G) Discover light patterns Performance: 1.1, 2.1, 3.1, 4.1 Knowledge: (CA) 1,3,4 (H/PE) 5 (SC) 1,7 CAGLE: R.1.E (gr. 6), R.1.H (gr. 8), W.2.Da (gr. 5) HEGLE: RAR.2.B (gr. 5) SCGLE: SC1.1.C-D (gr. 6), SC1.2.Aa-e (gr. 6), SC7.1.A,C-D (gr. 6), SC7.1.Ba-f (gr. 7)	• Reflecting Rainbows experiment conclusion sheet • Bubbularium experiment conclusion sheet	• Reflecting Rainbows experiment • Bubbularium experiment