Grade 6 Focus Calendar / Units of Study
2013 - 2014

Science – Grade 6	**Unit 1: Measurement**	**Unit 2: Scientific Method**	**Unit 3: Matter**	**Unit 4: Cells & Life Processes**	**Unit 5: Living Organisms, Classification, & Interactions**	**Unit 6: Environmental Changes**
Key Skills	• Measuring and reading/comparing: o Mass o Volume o Length o Density o Weight	• Scientific Method process o Problem/ Question o Research o Hypothesis o Materials/ Procedure o Experiment o Data Analysis o Conclusion	• Particles of solid, liquid, gas, plasma • Physical/Chemical changes and properties • Pure substances, solute, solvent, compounds, mixtures, solutions • Heterogeneous/homogeneous mixtures	• Life processes: growth, reproduction, energy use, lifespan, exchange of gases, use of water, response to stimuli, elimination of waste • Uni/multicellular • Plant and animal cell parts/functions • Photosynthesis • Cell theory • Diffusion/osmosis	• Biotic/Abiotic factors • Populations/Communities/ Ecosystems • Factors that determine number and type of organisms • Competition effects on resources • Energy transfer in webs/pyramids • Adaptations for survival	• Effects of beneficial and harmful activities or organisms. • Effects of natural environmental changes • Solutions to environmental changes • Renewable/ nonrenewable resources
Academic Vocab-ulary	• Measure	• Identify and describe • Design and conduct • Evaluate • Make suggestions • Use data to support explanations	• Identify • Classify • Describe	• Recognize • Describe • Compare/Contrast	• Diagram & describe • Describe • Compare/Contrast • Recognize • Identify • Competition • Predict possible effects	• Describe • Predict the impact of changes
Reading /Writing Skills	• Writing steps	• Writing paragraphs • Research • Writing a question	• Compare/Contrast • Venn Diagrams • Writing Summaries	• Compare/Contrast • Sequencing	• Compare/Contrast • Making Predictions	• Persuasive Writing • Prediction • Constructed Response • Cause/Effect
Math Skills	• Measuring and reading/comparing: o Mass o Volume o Length o Density o Weight • Metric Conversions • Subtraction • Graphs/data tables	• Graphs • Data tables • Mean (Average)	• Division • Multiplication • Subtraction • Using Rulers	• Conservation of mass • Chemical equations	• Reading diagrams	• Reading graphs • Percents in the energy pyramid • Data tables

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Power Standards/ GLEs Assessed	7.1.B.b.c.d	7.1.A.a.b.c.d	1.1.A.a.b.c.d 1.1.D.a	3.1.A.a 3.1.C 3.2.A	4.1.A.a 4.1.B.b.c 4.1.D.b.c	4.1.D.a-c
Labs	• Measuring/reading: o Length o Density o Weight o Volume o Mass	• Surface tension of water on a penny	• Physical/Chemical changes • Separating mixtures	• Microscope: looking at cheek and onion cells	• Owl pellets?	• Erosion
Approx-imate Instruction Dates	3-4 weeks	4-5 weeks	4-5 weeks	3-4 weeks	5-7 weeks	2-3 weeks

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Science – Grade 6	Unit 7: Earth's Processes, Interactions, and Landforms	Unit 8: Rocks, Soils, & Fossils	Unit 9: Light & Sound	Unit 10:	Unit 11:	Unit 12:
Key Skills	• Plate tectonics (convergent, divergent, transform) • Landforms create at each boundary • Slow/abrupt changes	• Soil layers • Formation of sedimentary rocks • Superposition of rock layers • Fossil formation • Changes on Earth and its environment • Compare and contrast fossil location	• Reflection/Refraction by various surfaces • Property of light • Sound waves • Translucent, transparent, opaque, light colors, and pigment colors • Convex/concave			
Academic Vocab-ulary	• Describe • Identify	• Making inferences • Using evidence to support data	• Compare/Contrast • Predict • Describe			
Reading /Writing Skills	• Cause/Effect • Constructed response • Draw conclusions	• Making inferences • Compare/Contrast	• Compare/Contrast • Predicting			
Math Skills	• Probability • Ratios/proportions	• Timelines	• Angles			
Power Standards/ GLEs Assessed	5.2.A.c.d 5.2.B.a	5.2.A.a 5.2.D.b	1.2.A.a-h 1.2.A.i-k 1.2.C.a.			
Labs	• Model of convection currents	• Making fossils	• Reflection/refraction			
Approx-imate Instruction Dates	4-5 weeks	3-4 weeks	2 weeks			