Science Curriculum: Grade 8 Georgia Performance Standards: Year Curriculum Map

This document is part of a framework that was designed to support the major concepts addressed in the 8th Grade Science Curriculum of the Georgia Performance Standards through the processes of inquiry. These units are written to be stand alone units that may be taught in any sequence. The length of each unit is a suggestion. Unit length should be based on student performance.

1 st 9 weeks 2 nd 9		weeks 3 ^r		^d 9 weeks	4 th 9 weeks	
7 weeksFocus:FocPure substances (elements and compounds)AtoMixturesandLaw of Conservation ofMixEnergy (energyMotransformations)solitRelationship betweenpla.O Potential and KineticDisO Velocity and AccelerationEffects of balance and unbalanced forces on an objectConEffect of simple machinesCon	nit: od and Cooking 7 weeks cus: oms and Molecules re substances (elements d compounds) fatures otions of particles on lids, liquids, gases, and usmas stinguish between • Physical and chemical properties • Physical and chemical changes onservation of Matter onservation of Energy pat flow • Conduction • Radiation • Convection	Unit: Energy in our Life 7 weeks Focus: Conservation of Energy Compare and control energy and their cha o Heat o Light o Electric o Magnetic o Mechanical o Sound Series and parallel of Electric currents Magnets Electric and magnet	ergy en Potential ast forms of aracteristics Motion circuits	Unit: Light and Sound Show 7 weeks Focus: Conservation of Energy Compare and contrast for energy and their charact \circ Heat \circ Light \circ Electric \circ Magnetic \circ Mechanical Motio \circ Sound Characteristics of electromagnetic and mechanical waves Behavior of light \circ Reflection \circ Reflection \circ Diffraction \circ Absorption Colors and human eyes Sound Amplitude and pitch	<i>eristics</i>	Unit: Science with Toys 8 weeks Focus: Conservation of Energy Relationship between • Potential and Kinetic • Velocity and Acceleration Effects of balance and unbalanced forces on an object Effect of simple machines on work

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