

GSE 8th Grade Physical Science Curriculum Map

These are bundles of core ideas from the Georgia Standards of Excellence related to an anchoring phenomenon.

This document is part of a framework that includes lessons and resources.

Instructional	Interactions of Energy	Structure and	mework that includes lesse		35.0			
Segment	and Matter	Properties of Matter	Waves	Forces	Motion			
Estimated Time	7 weeks	7 weeks	7 weeks	7 weeks	8 weeks			
Crosscutting Concepts	 Systems and system models Energy and matter Cause and effect Patterns 	Structure and functionEnergy and matter	Cause and effectStructure and functionEnergy and matter	Cause and effectStructure and functionEnergy and matter	Cause and effectEnergy and matter			
	Year-Long Phenomenon: Human need for energy							
Anchoring phenomenon	MagLev: World's Fastest Train	Dinner is ready You are what you eat	Best seats in the house	Seeing is believing: railroad car implosion Aurora Borealis Electrical force fields	Vehicular motion Crashes Runaway truck ramps			
Core ideas	 Energy Energy	 Structure and properties of matter Mixtures and solutions Elements and compounds Thermal energy Energy transformations Chemical and physical properties and changes 	 Waves properties (frequency, amplitude, wavelength, and energy) Energy (electromagnetic spectrum) Light and sound Wave propagation Lenses characteristics 	 Matter (structure and composition) Energy transformations Forces (friction, gravitational, electrical, and magnetic) Force fields Conductors and insulators 	 Force and motion Speed and acceleration Speed and distance Newton's Laws of Motion Balance and unbalanced forces Energy transformations Kinetic and potential energy 			
		Obtain, Evaluate, and Communicate Information						
Science and Engineering Practices	Plan and carrying out investigationsEngage in arguments	Develop and use modelsEngage in	Develop and use modelsConstruct	Plan and carry out investigationsEngage in arguments	Construct explanations and design solutionsAnalyze and interpret data			



	from evidence	arguments from	explanations and	from evidence	
	• Construct	evidence	design solutions		
	explanations and	• Construct	Analyze and		
	design solutions	explanations and	interpret data		
	-	design solutions	_		
		 Plan and carry out investigations 			
GSE	S8P2 c,d; S8P5 a,b,c	S8P1 a,b,c,d,e,f;	S8P4 a,b,c,d,e,f,g	S8P1 e; S8P2 c;	S8P3 a,b,c; S8P2 a,b
		S8P2 c,d		S8P5 a,b,c	