

Eighth Grade Physical Science Curriculum Map

Each unit integrates laboratory experiences, tools of science, the scientific method, and lab safety using the process of inquiry.

Grading Period	First & Second Six Weeks	Second & Third Six Weeks		Third & Fourth Six Weeks		Fifth & Sixth Six Weeks		
Name of Unit	What's the Matter?	Energy in Your Life	Energy in Your Life	Force, Mass, & Motion	Waves	Forces Acting in Nature	Wrapping Up	Accelerate
Big Ideas	Atoms and Elements Periodic Table Molecules, Mixtures, & Compounds Physical Properties Chemical Properties Physical Changes Chemical Changes States of Matter Law of Conservation of Matter	Transformations of Energy Law of Conservation of Energy Potential & Kinetic Energy	Forms of Energy Transfer of Energy	Motion Velocity & Acceleration Balanced & Unbalanced Forces Simple Machines Gravity Inertia Friction	<ul style="list-style-type: none"> ♦ Mechanical Waves ♦ Electromagnetic Spectrum ♦ Light & Color ♦ Sound ♦ Wave Interactions ♦ Vision & Hearing 	<ul style="list-style-type: none"> ♦ Gravity ♦ Electricity ♦ Magnetism 	Review All Topics for the CRCT	Lewis Dot Structures Covalent Bonds Ionic Bonds Carbon based Chemistry Balancing equations Predicting Formulas
Pacing of Unit	9 weeks	5 weeks	2 weeks	4 weeks	5 weeks	4 weeks	3 weeks	4 weeks
Domain & Content Weight	Structure of Matter 30%	Energy & Its Transformation 40%	Energy & Its Transformation 40%	Force & Motion 30%	Energy & Its Transformation 40%	Force & Motion 30%	All Domains 100%	Structure of Matter 30%
Resource	<u>Science Explorer</u> by Prentice Hall <u>Chemical Reactions</u> by LHS GEMS	<u>Science Explorer</u> by Prentice Hall	<u>Science Explorer</u> by Prentice Hall	<u>Science Explorer</u> by Prentice Hall	<u>Science Explorer</u> by Prentice Hall <u>Invisible Universe</u> by LHS GEMS	<u>Science Explorer</u> by Prentice Hall	<u>Science Explorer</u> by Prentice Hall	<u>Science Explorer</u> by Prentice Hall
Key Standard	S8P1 a-g	S8P2 a, b	S8P2 c, d	S8P3 a, b, c	S8P4 a-g	S8P5 a, b, c	S8P1 - 5	S8P1 a-g
Related Standard	S8CS 1-9 ISTE 2, 3, 6 SC1 b., SC2 b., SC3 a.-b., SC4 a.-b.	S8CS 1-9 ISTE 2, 3, 6	S8CS 1-9 ISTE 2, 3, 6	S8CS 1-9 ISTE 2, 3, 6	S8CS 1-9 ISTE 2, 3, 6	S8CS 1-9 ISTE 2, 3, 6	S8CS 1-9 ISTE 2, 3, 6	S8CS 1-9 ISTE 2, 3, 6 SC1 c., SC2 a., SC3 e.

Reading Across the Curriculum – The student consistently reads at least twenty-five books each year.

Writing Across the Curriculum – Students will be engaged in meaningful writing on a daily basis.