8th-Grade Curriculum Map: 2026-2027

Colorado State Standards

Content Area	August	September	October	November	December	January	February	March	April	May
ELA: Unit & Week	Unit 1 Week 1	Unit 1 Week	Unit 1 Week	Unit 2 Week	Unit 2 Week	Unit 3 Week	Unit 4 Week	Unit 4 Week	Unit 5 Week	Unit 5 Week
ELA: Colorado State Standards	Standard 2.1 Apply strategies to fluently read and comprehend various literary texts.	**CCSS:** L.7.4.A **Application: CCSS:** RL.7.1, RL.7.4, RL.7.10, SL.7.1.A, SL.7.1, SL.7.4, SL.7.1.D, SL.7.2, L.7.4.A, L.7.4.C, L.7.6	**Instruction: CCSS:** L.7.6 **Application: CCSS:** RL.7.1, W.7.4, W.7.5, W.7.6, SL.7.1.A, SL.7.1.B, SL.7.1.C, SL.7.1.D, SL.7.6, L.7.6	**CCSS:** L.7.4.A **Application: CCSS:** RL.7.1, RL.7.4, RL.7.10, SL.7.1.A, SL.7.1.D, SL.7.2, L.7.4.A, L.7.4.D	**Instruction: CCSS:** L.8.4.A **Application: CCSS:** RL.8.1, RL.8.4, RL.8.10; SL.8.1, SL.8.1.A, SL.8.1.D, SL.8.2, SL.8.4; L.8.4.A, L.8.4.C, L.8.	**Application: CCSS:** RL.8.1, RL.8.3, RL.8.4, RL.8.10, W.8.1.A, W.8.1.B, W.8.4, W.8.5, W.8.6, W.8.9.A, W.8.10, SL.8.1.A, SL.8.1.B, SL.8.1.C, SL.8.1.D, SL.8.3, SL.8.6, L.8.4.A, L.8.6	**CCSS:** RI.8.1, RI.8.4, RI.8.10, SL.8.1, SL.8.1.A, SL.8.1.D, SL.8.2, SL.8.4, L.8.4.A, L.8.4.C, L.8.6 **Application: CCSS:** RI.8.1, RI.8.4, RI.8.10, SL.8.1.A, SL.8.1.D, SL.8.2, L.8.4.A, L.8.4.C, L.8.6	**Instruction: CCSS:** RI.8.1, RI.8.4, RI.8.10, SL.8.1, SL.8.1.A, SL.8.1.D, SL.8.2, SL.8.4, L.8.4.A, L.8.4.C, L.8.6 **Application: CCSS:** RI.8.1, RI.8.4, RI.8.10, SL.8.1.A, SL.8.1.D, SL.8.2, L.8.4.A, L.8.4.C, L.8.6	**Application: CCSS:** RI.7.1, RI.7.4, RI.7.10; W.7.4, W.7.5, W.7.6, W.7.9.A, W.7.10; SL.7.1, SL.7.1.A, SL.7.1.B, SL.7.1.C, SL.7.1.D, SL.7.2, SL.7.3, SL.7.4, SL.7.6; L.7.4.A, L.7.4.C, L.7.4.D, L.7.6	**Instruction: CCSS:** RI.7.8 **Application: CCSS:** RI.7.1, RI.7.8; SL.7.1.A, SL.7.1.C, SL.7.2
ELA: Genre(s)	Unit 1: Everybody Love a Mystery	Unit 1: Everybody Love a Mystery	Unit 1: Everybody Love a Mystery	Unit 2: Past and Present Lessons: *Commencem*	Unit 2: Past and Present Lessons: *Commencem*	Unit 3: No Risk, No Reward Lessons:	Unit 4: Hear Me Out Lessons: /HUG (Fiction)	Unit 4: Hear Me Out Lessons: /HUG	Unit 5: Animal Farm	Unit 5: Animal Farm

	Lessons: *I am From, Tell Tale Heart, 10 Days In a Madhouse, Monster, Sympathy, The Lottery, The Landlady, The Graveyard Book* Writing a Narrative Study Sync: Weekly Vocabulary, Spelling, and Grammar IXL Study Sync: Skill Plan Genre: Fiction	Lessons: *I am From, Tell Tale Heart, 10 Days In a Madhouse, Monster, Sympathy, The Lottery, The Landlady, The Graveyard Book* Writing a Narrative Study Sync: Weekly Vocabulary, Spelling, and Grammar IXL Study Sync: Skill Plan Genre: Fiction	Lessons: *I am From, Tell Tale Heart, 10 Days In a Madhouse, Monster, Sympathy, The Lottery, The Landlady, The Graveyard Book* Writing a Narrative Study Sync: Weekly Vocabulary, Spelling, and Grammar IXL Study Sync: Skill Plan Genre: Fiction	*ent Address to the Santa Fe Indian School, I'm Nobody, Curtain Call, Slam, Dunk, and Hook, Abuela Invents the Zero, The Road Not Taken, The House on Mango Street,* Study Sync: Weekly Vocabulary, Spelling, and Grammar IXL Study Sync: Skill Plan Novel: <u>The Outsiders</u> Genre: Poetry Argumentative Writing: Literary Analysis	*ent Address to the Santa Fe Indian School, I'm Nobody, Curtain Call, Slam, Dunk, and Hook, Abuela Invents the Zero, The Road Not Taken, The House on Mango Street,* Study Sync: Weekly Vocabulary, Spelling, and Grammar IXL Study Sync: Skill Plan Novel: <u>The Outsiders</u> Genre: Poetry Argumentative Writing: Literary Analysis	INFORMATIONAL TEXTS *A Kenyan'Teen's Discovery, A Night to Remember, No Dream Too High, Address to the Nation on the explosion of the Space Shuttle Challenger* Study Sync: Weekly Vocabulary, Spelling, and Grammar IXL Study Sync: Skill Plan Novel: <u>The Outsiders</u> Genre: Poetry Genre: Informative	*Mother and Son, Gaming, Frederick Douglass, Gaming Communities (Informational Text),Speech to the Ohio Women's Conference: Ain't I a Woman? (Argumentative Text),* Study Sync: Weekly Vocabulary, Spelling, and Grammar IXL Study Sync: Skill Plan Silent Sustained Reading (SSR) Genre: Argumentative	(Fiction) *Mother and Son, Gaming, Frederick Douglass, Gaming Communities (Informational Text),Speech to the Ohio Women's Conference: Ain't I a Woman? (Argumentative Text),* Study Sync: Weekly	Lessons: *Satire, Allegory, Propaganda, Conformity, Herd Mentality, Character Analysis* Study Sync: Weekly Vocabulary, Spelling, and Grammar IXL Study Sync: Skill Plan Novel: <u>Animal Farm</u>	Lessons: *Satire, Allegory, Propaganda, Conformity, Herd Mentality, Character Analysis* Study Sync: Weekly Vocabulary, Spelling, and Grammar IXL Study Sync: Skill Plan Novel: <u>Animal Farm</u> One Page Summary View/wrap up of year
ELA: Writing Focus	Writing a Narrative	Writing a Narrative	Writing a Narrative	Literary Analysis	Literary Analysis	Informative	Argumentative	Argumentative		

Math 8: Unit and Content	**11 days** **Topic 1: Real Numbers** (15 days) Rational & Irrational Numbers Square & Cube Roots Scientific Notation	**20 days** **Finish Topic 1:** (9 days) **Topic 2: Analyze & Solve Linear Equations** (11 days) Multi-Step Equations Variables on Both Sides Slope & Linear Relationships	**16 days** **Finish Topic 2: (11 days)** **Topic 3: Use Functions to Model Relationships (5 days)** **Function Rules Tables, Graphs & Equations**	15 days Finish Topic 3 (11 days) **Topic 4: Investigate Bivariate Data** (4 days) Scatter Plots Trend Lines Association in Data	14 days Finish Topic 4 (10 days) **Topic 5: Analyze & Solve Systems of Linear Equations** (4 days) Graphing Systems Substitution & Elimination	17 days Finish Topic 5 (10 days) **Topic 6: Congruence & Similarity** (7 days) Transformations Congruence Similarity & Dilations	18 days Finish Topic 6 (18 days)	17 days **Topic 8: Surface Area & Volume** (14 days) Cylinders, Cones & Spheres	21 days **Topic 7: Pythagorean Theorem** (14 days)	18 days
Math 8: Colorado State Standards	8.NS.A. The Number System: Know that there are numbers that are not rational and approximate them by rational numbers. 8.EE.A. Expressions & Equations: Work with radicals	8.EE.A. Expressions & Equations: Work with radicals and integer exponents. 8.EE.B. Expressions & Equations: Understand the connections between proportional relationshi	8.F.A. Functions: Define, evaluate, and compare functions. 8.F.B. Functions: Use functions to model relationships between quantities.	8.SP.A. Statistics & Probability: Investigate patterns of association in bivariate data.	8.EE.C. Expressions & Equations: Analyze and solve linear equations and pairs of simultaneous linear equations.	8.G.A. Geometry: Understand congruence and similarity using physical models, transparencies, or geometry software.	8.G.A. Geometry: Understand congruence and similarity using physical models, transparencies, or geometry software.	8.G.C. Geometry: Solve real-world and mathematical problems involving volume of cylinders, cones, and spheres	8.G.B. Geometry: Understand and apply the Pythagorean Theorem.	Review, Projects, Final Assessment

	and integer exponents.	ps, lines, and linear equations. 8.EE.C. Expressions & Equations: Analyze and solve linear equations and pairs of simultaneous linear equations.								
Algebra: Unit and Content	16 days Topic 1: Solving Equations & Inequalities (15 days) Operations on Real Numbers Solving Linear Equations	20 days Topic 2: Linear Equations (11 days) Slope-Intercept Form Point-Slope Form Standard Form Begin Topic 3 (9 days)	16 days Finish Topic 3: Linear Functions (4 days) Domain & Range Linear Functions Transformations Topic 4 Systems (12 days) Graphing, Substitution, Elimination Linear Inequalities	15 days Topic 5: Piecewise Functions (12 days) Topic 6: Exponents & Exponential Functions (3days)	14 days Finish Topic 6 (10 days) Start Topic 7 (4 days)	17 days Finish Topic 7: Polynomials & Factoring (11 days) Start Topic 8 (6 days)	18 days Topic 8: Quadratic Functions (7 days) Begin Topic 9 (11 days)	17 days Finish Topic 9: Solving Quadratic Equations (2 days) Graphs, Factoring, Square Roots Start Topic 10 (15 days)	21 days Finish Topic 10: Working with Functions (2 days) Transformations Operations with Functions Inverse Functions CMAS Prep (5 days) Stats (14 days)	18 days Review, Projects, Final Assessment

Algebra: Colorado State Standards	HSN.Q.A.3 HSN.RN.B.3 HSA.CED.A.1 HSA.REI.A.1 HSA.REI.B.3	HSA.CED.A.1 HSA.CED.A.2 HSA.CED.A.3 HSA.REI.D.10 HSS.ID.C.7 HSF.IF.A.1	HSF.IF.A.1 HSF.IF.A.2 HSF.IF.B.5 HSF.BF.B.3 HSS.ID.B.6 HSS.ID.C.8-9 HSA.REI.C.5 HSA.REI.C.6 HSA.REI.D.11 HSA.REI.D.12 HSA.CED.A.3	HSF.IF.B.4 HSF.IF.C.7.B HSF.IF.A.2 HSN.RN.A.1 HSN.RN.A.2	HSF.IF.B.4 HSF.IF.C.7.B HSF.IF.A.2 HSN.RN.A.1 HSN.RN.A.2	HSF.LE.A.1-.3 HSF.BF.A.2 HSA.APR.A.1 HSA.SSE.A.2	HSA.SSE.A.1 HSF.IF.C.7 HSF.BF.B.3 HSA.CED.A.2 HSA.REI.B.4.B	HSA.REI.B.4.A-B HSA.SSE.B.3 HSA.REI.C.7 HSA.REI.D.11	HSF.IF.B.4-.6 HSF.IF.C.7.B HSF.IF.C.9 HSF.BF.B.4 HSF.BF.A.1.B	HSS.ID.A.1-.3 HSS.ID.B.5 Review of Algebra 1 Priority Standards
Geometry: Unit and Content										
Geometry: Colorado State Standards										
Foundations Math 8: Unit and Content ***120 lessons**	Unit 1 Fractions & Decimal Numbers + Statistics *15 lessons (8 days)	Unit 2 Variables + Ratios & Proportions *15 lessons (20 days)	Unit 3 Inequalities + Working w/ Rates *10 lessons (17 days)	Unit 4 Algebraic Patterns + Working w/ Percents *10 lessons (15 days)	Unit 5 Algebraic Expressions + Surface Area of 3-D Shapes *10 lessons (15 days)	Unit 6 Algebraic Rules & Properties + Volume of 3-D Shapes *10 lessons (17 days)	Unit 7 Algebraic Equations + Angle Measurement *10 lessons (18 days)	Unit 8 Solving Different Kinds of Algebraic Equations + Algebraic Word Problems *15 lessons (16 days)	Unit 9 Introduction to Functions + Coordinate Graphs *15 lessons (22 days)	Unit 10 Square Roots & Irrational Numbers + Nonlinear Functions *10 lessons (15 days)
Foundation Math 8: Colorado State Standards	8.NS.A. The Number System: Know that there are numbers that are not	8.EE.A. Expressions & Equations: Work with radicals and	8.EE.A. Expressions & Equations: Work with radicals and	8.EE.A. Expressions & Equations: Work with radicals and	8.EE.A. Expressions & Equations: Work with radicals and	8.EE.A. Expressions & Equations: Work with radicals and	8.EE.A. Expressions & Equations: Work with radicals and	8.EE.C. Expressions & Equations: Analyze and solve linear equations and	8.EE.B. Expressions & Equations: Understand the connections	8.EE.A. Expressions & Equations: Work with radicals and

	rational and approximate them by rational numbers. 8.SP.A. Statistics & Probability: Investigate patterns of association in bivariate data.	integer exponents. 8.EE.B. Expressions & Equations: Understand the connections between proportional relationships, lines, and linear equations.	integer exponents. 8.EE.B. Expressions & Equations: Understand the connections between proportional relationships, lines, and linear equations.	integer exponents. 8.EE.B. Expressions & Equations: Understand the connections between proportional relationships, lines, and linear equations. 8. F.A. Functions: Define, evaluate, and compare functions.	integer exponents. 8.EE.B. Expressions & Equations: Understand the connections between proportional relationships, lines, and linear equations. 8. G.C. Geometry: Solve real-world and mathematical problems involving volume of cylinders, cones, and spheres.	integer exponents. 8.EE.B. Expressions & Equations: Understand the connections between proportional relationships, lines, and linear equations. 8. G.C. Geometry: Solve real-world and mathematical problems involving volume of cylinders, cones, and spheres.	integer exponents. 8.EE.C. Expressions & Equations: Analyze and solve linear equations and pairs of simultaneous linear equations. 8. G.A. Geometry: Understand congruence and similarity using physical models, transparencies, or geometry software.	pairs of simultaneous linear equations. 8.EE.A. Expressions & Equations: Work with radicals and integer exponents. 8.EE.C. Expressions & Equations: Analyze and solve linear equations and pairs of simultaneous linear equations.	between proportional relationships, lines, and linear equations. 8.EE.C. Expressions & Equations: Analyze and solve linear equations and pairs of simultaneous linear equations. 8. F.A. Functions: Define, evaluate, and compare functions. 8. F.B. Functions: Use functions to model relationships between quantities. 8. G.A. Geometry: Understand congruence and similarity using physical models, transparencies, or geometry software.	integer exponents. 8. F.A. Functions: Define, evaluate, and compare functions. 8. G.B. Geometry: Understand and apply the Pythagorean Theorem. 8.NS.A. The Number System: Know that there are numbers that are not rational and approximate them by rational numbers. 8.EE.C. Expressions & Equations: Analyze and solve linear equations and pairs of simultaneous linear equations.

Social Studies: Unit & Content (JH: updated 6/1/26)	Unit 1: Foundations of History	Unit 2: America Before and After Colonization	Unit 3: Revolution in the Colonies	Unit 4: Forming a New Nation	Unit 5: Launching the New Republic	Unit 6: An Expanding Nation	Unit 7: Americans in the Mid-1800s	Unit 8: The Union Challenged	Unit 9: Migration and Industry	Unit 10: A Modern Nation Emerges
Social Studies: Colorado State Standards	**Standard 1 History: 2**: Develop a contextual understanding of the historical eras, individuals, groups, ideas, and themes from the origins of the American Revolution through Reconstruction; **Standard 2 Geography**: 1. Use geographic tools to research and analyze patterns in human and physical systems in the United States.									

Science: Unit & Contnet	**OpenSciEd** 8.1 Contact Forces (L1-L3): collisions & forces	**OpenSciEd** 8.1 Contact Forces (L4-L5): contact forces and mass & speed **McGraw/Hill(MGH)** Energy and Motion unit *Module 1:* L1: Position & Motion L2: Force & Acceleration **Graphing in Google Sheets** **Lab write-ups** **OpenSciEd** 8.1 Contact Forces (L7-L10) speed & mass, kinetic & potential energy, balanced & unbalanced forces.	**MGH** L3: Force Pairs & Newton's Laws of Motion L4: Gravitational Force Energy and Motion unit *Module 2:* L1: Kinetic Energy L2: Potential Energy **Graphing in Google Sheets** **Lab write-ups**	**MGH** L3: Law of Conservation of Energy L4: Gravitational Force Energy and Motion unit *Module 3:* L1: Magnetic Forces L2: Electric Forces **Graphing in Google Sheets** **Lab write-ups**	**MGH** L2: Electric Forces **OpenSciEd** 8.2 Sound Waves (L1 to L3) **MGH** Understanding Waves unit *Module 1:* L1: Wave Properties L2 Mechanical Waves	**OpenSciEd** 6.1 Light & Matter (L1-L6) **MGH** *Module 2:* L1: How Light Travels L2: Reflection & Mirrors L3: Refraction & Lenses L4: Color of Light **Slideshow** EM spectrum	**MGH** L4: Color of Light *Module 3:* L1: Communicating with Signals L2: Modern Communication with Digital Signals	**MGH** Understanding Matter unit *Module 1:* L1: Particles in Motion L2: States of Matter L3: Thermal Energy Transfers L4: Thermal Energy Conductivity *Module 2:* L1: Energy & States of Matter	**MGH** L2: Changes in Temperature L4: Molecular Structure **MGH** Interactions of Matter unit *Module 1:* L1: Properties of Matter L2: Property Changes in Chemical Reactions	**MGH** L3: Energy Changes in Chemical Reactions *Module 2:* L1: Synthetic Technology L2: Synthetic Materials and Societal Impacts

Field Studies		CO State Patrol in-class program Contacted on 6/1/26		CSU Energy Labs Tour Informed Mandi 6/1/26	CO Symphony Informed Mandi 6/1/26	Museum of Illusions in Denver paired with either the CO History Museum Informed Mandi 6/1/26				Boston Trip State Capitol
Field Studies Curriculum Connection & Standard(s)		3. Motion is described relative to a reference frame that must be shared with others and is determined by the sum of the forces acting on it. The greater the mass of the object, the greater the force needed to achieve the same change in motion.		4. Forces that act a distance (gravitational, electric, and magnetic) can be explained by force fields that extend through space and can be mapped by their effect on a test object.	8. A simple wave model has a repeating pattern with specific wavelength, frequency, and amplitude and mechanical waves need a medium through which they are transmitted. This model can explain many phenomena which include	8. A simple wave model has a repeating pattern with specific wavelength, frequency, and amplitude and mechanical waves need a medium through which they are transmitted. This model can explain many phenomena which include light and sound. 9. A wave model of light is useful to explain				1. 1. Investigate and evaluate primary and secondary sources from multiple diverse perspectives about United States history from the American Revolution through Reconstruction to formulate and defend claims with textual evidence and logical reasoning; 1. 2. Develop a contextual understand

		5. Kinetic energy can be distinguished from the various forms of potential energy. 7. When two objects interact, each one exerts a force on the other that can cause energy to be transferred to and from the object.			light and sound.	ow light nteracts with bjects through ariety of roperties.				ing of the historical eras, individuals, groups, ideas, and themes from the origins of the American Revolution through Reconstruction.
Field Studies Essential Question		What are the factors that contribute to the severity of a car accident?		How is magnetism used in the production of electricity? How is electricity made?	Observe firsthand how the frequency, pitch, and design of a room can affect the sounds we hear.					How does studying history help us make decisions in the present?

Field Studies Artifact/Product										Boston: Presentation of historic site; Capitol: Time Traveler's Journal
Projects/ Activities			UNIT STEM Project: Reducing the impact of a bridge and car collision. STEM Project Plan and research for essay	UNIT STEM Project: Amusement Park Rides 5-paragraph essay on STEM Project background research	Complete final write-up of STEM Project Lab	UNIT STEM Project: wave barriers along shorelines STEM Project poster board presentations and peer review,	UNIT STEM Project: Transitioning from analog TV to digital TV.	UNIT STEM Project: solar cookers	UNIT STEM Project: Design a hand warmer that uses a chemical reaction.	
District Assessments	MAP Gr K-8: BOY Benchmark DIBELS Gr K-3 BOY Benchmark				MAP Gr K-8: MOY Benchmark DIBELS Gr K-3 MOY Benchmark					MAP Gr K-8: EOY Benchmark DIBELS GrK-3 EOY Benchmark
State Assessments						ACCESS (ELLs)			CMAS ELA/Math/ Science/Soc St. Grades 3-8	-