

Michael C Riley ECC & Elementary School Units of Study 2019-2020

Kindergarten Classroom Themes 2019-2020

	Time Frame	Classroom Theme	STEM Integration - STEM Lab	STEM Integration - Classrooms
Q1	Weeks 1 & 2	First 8 Days		
	Week 3	Alphabet/Chicka-Chicka-Boom-Boom	Introduction to Engineering-Engineer for the Day	Create trees with ABCs
	Week 4	Colors/Brown Bear	Introduction to Engineering-Engineer for the Day	Shape Exploration
	Weeks 5 & 6	Farm (habitats/animals)	Mechanimals STEM Challenge	
	Week 7	Apples	Mechanimals STEM Challenge	
	Weeks 8 & 9	Fall	10 Apples Up on Top	Pumpkin exploration (weight, height, number of seeds)
	Q2	Week 1	Pumpkins	10 Apples Up on Top
Week 2		Make Believe	Monsters Under Bridges	Bridges for the Three Billy Goats Gruff
Week 3		Nocturnal Animals	Monsters Under Bridges	
Week 4		American Symbols		
Week 5		Families	Turkey Trouble	
Weeks 6 & 7		Thanksgiving	Turkey Trouble	Boats to float pilgrims to New World
Week 8		Gingerbread Men		

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	Week 9	Reindeer	Elf on the Shelf	Elf Sleighs out of recycled materials
	Week 10	Holidays Around the World	Elf on the Shelf	
Q3	Weeks 1 & 2	Snow/Winter	Snow Day-Snow Tube Ramp Design Challenge	
	Week 3	MLK/Rosa Parks/Black History	Snow Day-Snow Tube Ramp Design Challenge	
	Week 4	100th Day/Groundhog Day		100th Day STEM Building Explorations
	Week 5	Leadership Week		Groundhog burrows
	Week 6	President's Day/Valentine's Day	In Arctic Waters	Paper Mache Penguin eggs to keep on their feet like Emperor Penguin
	Weeks 7 & 8	Polar Animals	In Arctic Waters	Penguin Nests to keep eggs from getting wet
	Week 9	Dr. Suess Week	The Shape of Me and Other Stuff	Dr. Suess Lorax Trees using unifix cubes
	Week 10	5 Senses/Matter	The Shape of Me and Other Stuff	Create a guitar for Pete the Cat out of recycled materials
Q4	Weeks 1 & 2	Community Helpers	Ozobot Communities	Cardboard Challenge to create place and tools needed for a community helper's occupation
	Weeks 3 & 4	Maps & International Festival	Ozobot Communities	
	Week 5	Spring/Plants	Mad Hatter Challenge	

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	Weeks 6 & 7	Insects/Mother's Day	Mad Hatter Challenge	
	Week 8	Ponds/Life Cycles	Freddie Fish	
	Week 9	Oceans	Freddie Fish	
	Weeks 10 & 11	Summer		

First Grade Integrated Units 2019-2020

<i>Science</i>	<i>Social Studies</i>					
Dates	Unit	About	Writing	Math	STEM Integration - STEM Lab	STEM Integration - Classrooms
08/19-08/30	First 8 Days	Leader in Me Program				
09/03-09/13	American Pride/The Roles of Citizens	Rules, Laws, Rights/Responsibilities	Launching Writer's Workshop	Unit 1- Number Sense	Introduction to Engineering- Iggy Peck Architect Bridge Builder	
09/16-10/04	Life Cycle of Fall Plants	Apples, Pumpkins, Living/Non-living	Small Moments	Unit 1- Number Sense	Apple Container Challenge	
10/07-10/18	American Democracy (Government and Presidents)	Role of government branches, voting, Lincoln/Washington	Small Moments	Unit 2- Foundation for Addition	Synergize-Roller Coaster Challenge	Lincoln's Cabin: Students use pretzels and peanut butter to design a log cabin to keep Lincoln safe from a tornado.

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10/21-10/25	Light/Shadows	How they form and change	Non-Fiction	Unit 2- Foundation for Addition	Made for the Shade Shelter Challenge	Shadow Puppets: Students experiment with different shapes to create shadow puppets. They test their shadow shapes and alter until they have achieved their goal.
10/28-11/08	Space	Movement of sun, moon, Earth, phases of the moon	Non-Fiction	Unit 3- Visual and Number Patterns	Made for the Shade Shelter Challenge Punkin Chunkin Challenge	Bottle Rockets: students use film canisters and Alka-Seltzer as a base to design a rocket ship, adding on wings, a nose, etc, testing to see who's can fly the farther.
11/12-11/15	Families Around the World	Unit of study on 5 countries homes, customs, cultures, traditions	Non-Fiction	Unit 3- Visual and Number Patterns	Communities Around the World- House Project	
11/18-11/26	Thanksgiving/ Comparing and Contrasting Colonial US to Present	Wampanoags, Compare/Contrast Then/Now	Non-Fiction	Unit 3- Visual and Number Patterns	Communities Around the World-House Project	
11/27-11/29	Thanksgiving Break					
12/02-12/13	Fairy Tales/ Comparing Gingerbread Stories	Elements of FTs and Stories, Compare versions, FT Creation	Songs and Poetry	Unit 4- Measurements and Basic Facts	Santa Parachute Challenge	Gingerbread Houses: Students use graham crackers, icing, and candy to design and create a gingerbread house.

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12/16-12/20	Cultures in Winter	Daily Country Study of Winter Customs w/ World Tour on dates	Cultural Writings	Winter Math Review Games		
12/23-01/03	Winter Break					
01/07-1/17	Economic Resources	Needs and Wants, Goods and Services, Saving Money	Opinion	Unit 5- Understanding Place Value		
01/20-1/24	Leadership Day Prep		Opinion	Unit 5- Understanding Place Value	Jan Brett-The Mitten	
01/27-02/07	Arctic Animals and Jan Brett	Arctic Animal Studies, Jan Brett Author Study	Opinion	Unit 6- Developing Fact Power	Jan Brett- The Mitten	Penguin Raft: Students engineer a raft to save a penguin from seals.
02/10-2/14	MLK/ Civil Rights	MLK, Civil Rights, How Kids Change Their World	Opinion	Unit 6- Developing Fact Power	Jan Brett- The Mitten	Polar Bear Den: Students use various sizes of marshmallows and toothpicks to design a den for a polar bear.
02/18-02/28	Spring Plants (Growing Review/Planting)	Review plants and make seed observations/ plant to study	Scientific Journals	Unit 7- Shapes and Their Attributes	Dr. Seuss "Cat in the Hat" Challenge	Plant Research: Students in the class plant a variety of "mystery plants" and keep a plant journal documenting their observations over the course of a few months, then use research to find out what their plant is. Once discovered, students do experiments on the same
03/02-03/06	Dr. Seuss	May be moved by Harte. If so, 2 weeks of plants first.	Realistic Fiction	Unit 7- Shapes and Their Attributes	Dr. Seuss "Cat in the Hat" Challenge	
03/09-03/12	Spring Plants (Environments)	Growth Observation, Plant Adaptations, Categories of Plants	Realistic Fiction	Unit 7- Shapes and Their Attributes	Designing Hand Pollinators	

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03/16-03/27	Eric Carle/Bug Life Cycle	Author Study, one day fiction, one day non-fiction trade off.	Realistic Fiction	Unit 8- Dividing Geometric Shapes	Designing Hand Pollinators	variety of plants to secure the best environment.
03/30-04/10	International Festival/Memories	Mexico or China Study, as well as other cultures.	Country Writings	Unit 8- Dividing Geometric Shapes	Designing Hand Pollinators	STEM Bins: As students finish their work, they have the option of a STEM bin. These bins include blocks, pipe cleaners, magnets, LEGOs, Play-Doh, Lincoln Logs, etc. They grab a task card and synergize to design the item on the card, including traps, animal homes, 3D shapes, robots, toys, castles, and other options.
04/13-04/17	Spring Break					
4/20-4/24	Reduce, Reuse, Recycle	How can you help the environment?	Realistic Fiction	Unit 9- Extending Place Value	Landforms Design Challenge	Recycled Robots: Students gather recycled or cast-aside materials and design a robot that in some way helps with conservation.
04/27-05/01	Landforms	Classify Land and Water Formations	Independent Study	Unit 9- Extending Place Value	Landforms Design Challenge	Landform Creation: Students use clay to design a landscape showcasing the landforms studied in class.
05/04-05/09	Me on the Map/Geography	City, State, Country, Continent Identification	Independent Study	Unit 9- Extending Place Value	Landforms Design Challenge	May River Clean-Up: Students receive a container of polluted water (oil, coffee, trash debris, etc.), and design a device to

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						remove the pollution from the "river."
5/12--5/16 s	Kevin Henkes	Friendship	Author Study	Unit 10 Review	Lily's Purple Plastic Purse	
05/19-05/29	Countries Around the World, End of Year Activities		Independent Study	Unit 10- Review	Lily's Purple Plastic Purse	

Second Grade Integrated Units 2019-2020

Week #	Writing	Reading	Science/Social Studies	Math	STEM Integration - STEM Lab	STEM Integration - Classrooms
Q1-1	First 8 Days	First 8 Days	First 8 Days	First 8 Days		
Q1-2	First 8 Days	First 8 Days	First 8 Days	First 8 Days		
Q1-3	Bend 1: lessons 1,2	Bend 1: lessons 1,2	Local community citizens, rights, responsibilities urban/rural/suburban	Unit 1: Numbers and Routines	Lunar Lander Challenge	
Q1-4	Bend 1: lessons 3, 4, 5	Bend 1: lessons 3, 4, 5	Sept. 11 Local community cont'd	Unit 1	Lunar Lander Challenge	

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			urban/rural/sub urban			
Q1-5	Bend 1: lessons 6, 7, 8	Bend 1: lessons 6, 7, 8	Local community wrap up	Unit 1	Lunar Lander Challenge	
Q1-6	Bend 2: lessons 9, 10, 11	Bend 2: lessons 9, 10, 11	Weather (what is weather? temperature, wind, forms of precipitation)	Unit 1/ Unit 2: Addition & Subtraction	Wind Sail Designs	
Q1-7	Bend 2: lessons 12, 13, 14	Bend 2: lessons 12, 13, 14	Weather (wind)	Unit 2	Wind Sail Designs	
Q1-8	Bend 3: lessons 15, 16, 17	Bend 3: lessons 15, 16, 17	weather (severe weather/safety)	Unit 2	Wind Sail Designs	Build a shelter for severe weather events
Q1-9	Revisions and Editing of Small Moment Writing		Weather (weather recap/test)	Unit 2	Wind Sail Designs	
Q2-1	Publish Writing and Celebrations	Reading Unit Culminating Activity and Celebrations	Wrap up weather unit/test	Unit 2/ Unit 3: Place Value, Money, & Time		
Q2-2	COGAT	COGAT	Push/Pulls	Unit 3/test	Rube Goldbergs	Pushes and Pulls: Create ramps with different amounts of friction for toy cars
Q2-3	Bend 1: Lessons 1 and 2	Unit 2 Bend 1: Lessons 1 and 2	Pushes & pulls intro/ ITBS	Unit 4	Rube Goldbergs	Force and friction: Create a skier to slide down a slope

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Q2-4	Bend 1: Lessons 3, 4, 5	Bend 1: Lessons 3,4,5	Pushes & pulls	Unit 4	Rube Goldbergs	
Q2-5	Bend 1: Lesson 6 Bend 2: Lesson 7	Bend 1: Lesson 6 Bend 2: Lesson 7	local government/His torical events (thanksgiving)	Unit 4/test		
Q2-6	STEM/Thanks giving	STEM/Thanksgiving	STEM/Thanksgi ving	Unit 5		
Q2-7	Bend 2: Lessons 8, 9	Bend 2: Lesson 8, 9	Local government	Unit 5	Candy Cane Package Delivery	
Q2-8	Bend 2: Lessons 10, 11	Bend 2: Lesson 10, 11	Government	Unit 5	Candy Cane Package Delivery	
Q2-9	Bend 3: Lessons 12, 13 ,14	Bend 3: Lessons 12, 13 ,14	Government/Cu ltural holidays	Unit 5		
Q3-1 Jan 5	Bend 3: Lessons 18, 19, 20	Bend 3: Lessons 18, 19, 20	Magnets	M2	Squeaky Clean Magnets	
Q3-2 Jan 12	Unit 3: Opinion Bend 1: Lessons 1, 2	Unit 3: Opinion Bend 1: Lessons 1, 2	Magnets	M2	Squeaky Clean Magnets	
Q3-3 Jan 19	Bend 1: Lessons 3, 4	Bend 1: Lessons 3, 4	Magnets Wrap Up/ Assessment	M2	Squeaky Clean Magnets	

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Q3-4 Jan 26	Bend 1: Lessons 5, 6	Bend 1: Lessons 5, 6	World Geography (locate where they live on a map/globe, local resources/features)	Unit 6		Maps: Create 3D maps or a map of a town
Q3-5 Feb 2	Bend 2: Lessons 7, 8, 9	Bend 2: Lessons 7, 8, 9	World Geography	Unit 6	ME Island/My Town Project	
Q3-6 Feb 9	Bend 2: Lessons 10, 11	Bend 2: Lessons 10, 11	World Geography	Unit 6	ME Island/My Town Project	
Q3-7 Feb 16	Bend 3: Lessons 12, 13	Bend 3: Lessons 12, 13	World Geography	Unit 6	ME Island/My Town Project	
Q3-8 Feb 23	Bend 3: Lessons 14, 15	Bend 3: Lessons 14, 15	Properties of Solids and Liquids (Matter)	Unit 7	Oobleck Containers	
Q3-9 Mar 1	Bend 3: Lessons 16, 17	Bend 3: Lessons 16, 17	Properties of Solids and Liquids (Matter)	Unit 7	Oobleck Containers	
Q3 Mar 8	Bend 3: Lessons 18, 19	Bend 3: Lessons 18, 19	Animals	Unit 7	Oobleck Containers	
Q3 Mar 15	Bend 1: Lessons 3, 4	Bend 1: Lessons 3, 4	Animals (classification, structures/survival, & habitats)	Unit 8	Bird Beak Adaptations	

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			--2.L.5A.1, 2.L.5A.2, 2.L.5B.1, 2.L.5B.2)			
Q4-1 Mar 22	Bend 1: Lesson 5 Bend 2: Lesson 6	Bend 1: Lesson 5 Bend 2: Lesson 6	Animals (classification, structures/survival, & habitats --2.L.5A.1, 2.L.5A.2, 2.L.5B.1, 2.L.5B.2)	Unit 8	Bird Beak Adaptations	
Q4-2 Mar 29	Bend 1: Lesson 5 Bend 2: Lesson 6	Bend 1: Lesson 5 Bend 2: Lesson 6	Animals (animal research projects-- 2.L.5A.1, 2.L.5A.2, 2.L.5B.1, 2.L.5B.2)	Unit 9	Bird Beak Adaptations	
Q4-3 Apr 5	Bend 2: Lessons 7, 8	Bend 2: Lessons 7, 8	International Festival Study (Cultural Contributions) South Korea/Egypt	Unit 9	Bird Beak Adaptations	
Q4-4 Apr 19	Bend 2: Lessons 9, 10	Bend 2: Lessons 9, 10	Animals (Life Cycles/Butterfly Unit – 2.L.5A.3)	Unit 10		
Q4-5 Apr 26	Bend 3: Lessons 11, 12	Bend 3: Lessons 11, 12	Animals & Zoo Field trip Animal Research Presentations	Unit 10		
Q4-6 May 3	Bend 3: Lessons 13, 14	Bend 3: Lessons 13, 14	Economics	Unit 10	International Fest-Building a Shaduf	
Q4 – 7 May 10	Bend 3: Lessons 15, 16	Bend 3: Lessons 15, 16	Economics	Unit 11	International Fest-Building a Shaduf	

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Q4- 8 May 17	Bend 3: Lesson 17-Celebratio n		Economics	Unit 11 Test/ M2 Measurement	International Fest-Building a Shaduf	
Q4- 9 May 24	Last week - wrap up	Last week - wrap up	Wrap up school year with a variety of STEM activities	Measurement rotations and activities		
Q4- 10 May 31	Last Week Of school		Last Week of School			

Third Grade Integrated Units 2019-2020

	Time Frame	Math	Writing	Science/	Reading	STEM	STEM
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				Social Studies		Alignment - STEM Lab	Alignment - STEM Lab
Q1	Weeks 1-2	The Leader in Me - The First Eight Days					
	Weeks 3-6	Unit 1 - Tools, Time, and Multiplication	Set up a writing workshop	South Carolina Geography & Regions	Building a Reading Life	Introduction to the EDP - Floating Challenge	Synergy: Marshmallow and Spaghetti Tower
	Weeks 7-9	Unit 2 - Number Stories and Arrays	Crafting True Stories	Earth's Materials	Patricia Polacco Character Study	Introduction to the EDP - Floating Challenge	
Q2	Weeks 10-13	Unit 3 - Operations	Art of Information	Exploration & Settlement	Reading to Learn	Erosion Stream Table Explorations	Hurricane-proof Wigwams
	Week 14	Unit 4 - Measurement and Geometry	Art of Information	Exploration and Settlement	Reading to Learn	SC Regions Maps	
	Weeks 15-17	Unit 4 - Measurement and Geometry	Art of Information	Organisms	Reading to Learn	SC Regions Maps	Raising praying mantises for gardens around the school
	Week 18	Unit 5 -	Art of	Organisms	Reading to	Geometric	Turkey Trap

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		Multiplication Strategies	Information		Learn	Containers	
Q3	Weeks 19-21	Unit 5 - Multiplication Strategies	Changing the World	American Revolution	Character Studies	Geometric Containers; American Revolution forts	Paper Houses
	Week 22	Unit 6 - Operations Part 2	Changing the World	American Revolution	Poetry	American Revolution forts	
	Weeks 23-24	Unit 6 - Operations Part 2	Changing the World	Government	Poetry	American Revolution forts	
	Week 25	Unit 6 - Operations Part 2	Changing the World	Matter	Traditional Literature	Insulating Soup Containers	Rainbow-Color ed Density Layers to investigate physical properties of paper and solutions
	Weeks 26-28	Unit 7 - Fractions	Changing the World	Matter	Traditional Literature	Insulating Soup Containers	
	Week 29	Unit 7 -	Fairytale	Civil War	Using Text	Insulating Soup	

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Q4		Fractions	Writing		Evidence	Containers	
	Weeks 30-32	Unit 8 - Multiplication and Division	Fairytale Writing	Civil War	Using Text Evidence		
	Week 33	Unit 8 - Multiplication and Division	Fairytale Writing	Civil War	Test Prep	Energy Ball Exploration - circuits	
	Week 34	Unit 9 - Multidigit Operations	Fairytale Writing	Electricity and Magnetism	Test Prep	Energy Ball Exploration - circuits	
	Weeks 35-36	Unit 9 - Multidigit Operations	Research Writing	Electricity and Magnetism	Test Prep		Water Parks
	Week 37	Unit 9 - Multidigit Operations	International Festival	Electricity and Magnetism	Test Prep		

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Fourth Grade Units of Study 2019-2020

	Time Frame	Reading	Writing	Math	Science	Social Studies	STEM Alignment	
Q1	Aug.	Leader in Me (first 8 days) -routines/practice for workshop	Personal Narratives	Geometric Figures (Unit 1)	Inquiry/Weather	Native Americans	Introduction to/Review of Engineering Design Process - Floating Challenge	
	Sept	Launching Readers Workshop Novel Study (Fiction) + story elements	Personal Narrative Writing a Coherent Paragraph	Geometric Figures (Unit 1) Using Numbers and Organizing Data (Unit 2)	Inquiry/Weather	Native Americans Explorers	Introduction to/Review of Engineering Design Process - Floating Challenge Fronts Activity	
	Oct.	Launching Readers Workshop Novel Study (Fiction) + story elements Fairy Tales -summary,	Personal Narrative Writing a Coherent Paragraph	Using Numbers and Organizing Data (Unit 2) Multiplication and Division (Unit 3)	Astronomy	Settlement of the New World	Introduction to/Review of Engineering Design Process - Floating Challenge Fronts Activity	Tides Field Studies

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		elements, compare/contrast, point of view, moral/lesson						
Q2	Nov.	Fairy Tales -summary, elements, compare/contrast, point of view, moral/lesson	Writing a Coherent Paragraph	Decimals (Unit 4) Computation (Unit 5)	Astronomy	Colonial America	Parachutes Robotic Arms	
	Dec.	Nonfiction -text features -text structures	T.S. Paragraphs	Computation (Unit 5) Division and Measuring Angles (Unit 6)	Astronomy/Light and Sound	Colonial America	Parachutes	
Q3	Jan.	Nonfiction - Text features & Structures -research skills -fact/opinion -paraphrasing -nonfiction summary -primary/secondary sources -bias/opinion	Boxes/Bullets Persuasive Essay	Division and Measuring Angles (Unit 6)	Light and Sound	American Revolution	Parachutes,	String telephones Engineering Fair Projects
	Feb.	Nonfiction	Informative	Fractions (Unit	Light and Sound	American	Solar Cookers	String telephones

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		-Research skills, fact/opinion, paraphrasing, nonfiction summary, primary/secondary sources, bias/opinion Tall Tales/Myths -Figurative Language, hyperbole, simile/metaphor	Writing Persuasive Essay	7) Perimeter and Area (Unit 8) Fractions and Decimals (Unit 9)		Revolution	to explore light and energy; Monster reflection challenge	Engineering Fair Projects
Q4	March	Poetry Structure -deeper thinking/meaning, rhythm/rhyme, figurative language	Expository Writing TDAs	Fractions and Decimals (Unit 9) Reflection and Symmetry (Unit 10) Measurement and Line Plots (Unit 11)	Organisms & Their Environment	Government/We stward Expansion	Creating a seed for dispersal	
	April	Test Prep & Review Text Marking/locating information -stems/roots -prefixes	Expository Writing TDAs	Measurement and Line Plots (Unit 11) Review and Readiness (Unit 12)	Organisms & Their Environment	Government/We stward Expansion	Burning of Bluffton Tours	
	May	Test Prep &	TDAs	Review and	Organisms &	Civil War	Classifying	

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		Review Text Marking/locating information -stems/roots -prefixes		Readiness (Unit 12)	Their Environment SC Ready Pass Review		seashells	
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Fifth Grade Units of Study 2019-2020

	Time Frame	Reading	Writing	Science	Social Studies	STEM Alignment - STEM Lab	STEM Alignment - Classrooms
Q1	Aug 19 - Aug 30	Leader in Me First 10 Days	Leader in Me First 10 Days	Leader in Me First 10 Days	Reconstruction & Westward Expansion (Unit 2, Unit 3 Lessons 1-2)	Review of Engineering Design Process - Flinkers	
	Sept 3 – Sept 13	Launching Workshop	Launching Workshop				
	Sept 23 – Oct 18	Interpretation Book Clubs (Book 1)	Narrative Craft (Book 1)	Ecosystems		Introduction to Engineering Design Process - Flinkers	Camp Driftwood Port Royal Sound and Oyster Factory Field Studies
Q2	Oct 21 – Nov 15	Tackling Text Complexity (Book 2)	Lens of History		US Becoming a World Power (Unit 3 Lessons 3-6, Unit 4 Lessons 1-2)	Westward Expansion - Covered Wagons; Changed from Ballot Box Challenge and Immigration Steamships to better fit curriculum	
	Nov 18 – Dec 20	Reading Like a Fan (Author Study) (<i>If...Then..</i>)	Feature Articles (<i>If...Then...</i>)	Matter & Mixtures		Engineering Fair - Performance-based assessment of EDP	Lemonade as exploration of conservation of matter
Q3	Jan 7 – Feb 7	Argument & Advocacy (Book 3)	Research-based Argument (Book 3)		Economic Boom & Bust (Unit 4 Lessons 3-4, Unit 5 Lessons 1-4)	Assembly Lines, Great Migration Vehicles	
	Feb 10 – Mar 12	Fantasy Book Clubs (Book 4)	Literary Essay	Force and Motion		Sphero Programming	Roller Coaster PBL

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Q4	March 16 – Apr 9	Poetry/Historical Fiction Book Clubs <i>(If...Then...)</i>	TDA Practice		Cold War & Fall of the Soviet Union (Unit 5 Lessons 5-6, Unit 6)	Watersheds Exploration	
	Apr 20 – May 15	Test Prep	Test Prep	Landforms		Watersheds Exploration	