

STEAM Units at a Glance 2019-2020

		Q1	Q2	Q3	Q4
Grade 3	SS	US Geography American Indians Early American Indian Cultures Regions where American Indians Settled Compare/Contrast Relationship with Natural Resources/Reasons for Settlement Contributions of American Indians to Modern Life	American Indians (continued) Exploration Reasons and Obstacles Accomplishments of Cabot, Balboa, de Soto, Columbus, Hudson, and Cartier Conflict and Cooperation of Explorers with American Indians Challenges of the Physical Environment	Exploration (continued) Colonial America Factors that shaped British Colonial America Three Regions Compare/Contrast Colonial Life in each Region Viewpoints on Colonial Life Impact of Physical Geography on Economics	A New Government Elements of Representative Democracy/Republic in the U.S. 3 Branches of National and State Government Shared Democratic Beliefs and Principles Economics Productive Resources Good & Services/Taxes Interdependence and trade Voluntary Exchange Opportunity Cost/Spending and Saving Choices
	DQ	How does WHERE we live shape HOW we live?		How can motivations of populations impact how and where people live?	
Grade 4	SS	Geography Government Ideals Forming a New Nation Causes, events, and results of the American Revolution Explain the Declaration of Independence	Challenges of a New Nation The Articles of Confederation The Constitutional Convention The Preamble Our form of government and checks & balances The First Amendment The Bill of Rights	The Nation Expands War of 1812 Impact of westward expansion on American Indians Territorial Expansion Abolitionist and Suffragist movements Opportunity cost and voluntary exchange in historical context	Civil War and Reconstruction Causes of the Civil War Major Events the Civil War Effects of the Civil War Social and Political Effects of Reconstruction Economic specialization in historical context Economics Opportunity cost, price incentives, specialization, voluntary exchange, trade, technology's impact on business productivity in historical contexts Personal budgets and decision making
	DQ	How does the geographic location and climate of a region affect the motivations of communities in that region?		How can new technology help us solve problems as a society expands?	
Grade 5	SS	Turn of the Century Cowboys & Cattle Trails The US Becomes a World Power Flight, Phones, Electricity, and Science Advances Immigration Spanish American War The Panama Canal Economics and Price Industrialization	WWI/1920's World War I The Jazz Age The Harlem Renaissance Baseball, Flight, and the Automobile Great Depression & New Deal Stock Market Crash The Great Depression The New Deal Programs Music, Literature, and Sports in America The Dust Bowl WWII Causes of World War II Leaders of World War II Major Events World War II Women and African Americans during the War Eleanor Roosevelt & the UN	Cold War The Rise of Communism and the Iron Curtain Wars to Stop the spread of Communism Important Events to Stop Communism and Protect America Important Figures During the Cold War NATO 1950-1975 Jim Crow Laws Important Civil Rights Events Important Civil Rights Leaders Assassinations of Important American Figures Technology Advances in Space and Entertainment 1975-2001 Ronald Reagan and the Collapse of the Soviet Union September 11th, 2001 The Computer and the Internet	Geography Citizenship Citizen's Rights & Responsibilities The Amendment Process Making a Budget Creating a Budget Income, Saving, and Expenses
	DQ	How can we use innovative solutions to solve traffic issues in metro Atlanta?		How can we design a survival kit to help refugees while they relocate?	

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Grade 3	SCI	Rocks & Soils Rock classification Properties of soils Effects of water and wind on rocks and soil	Fossils Fossils Fossilization	Georgia Habits Georgia Plants, Animals, Habitats Animal Adaptation Pollution & Conservation Human Impacts on Earth Systems Earth and Human Activity Conservation Recycling	Heat Energy Conservation of Energy Energy Transfer
	DQ	How do we identify the environmental impact and solve the problem of erosion on the MCAA playground?		How can we help solve the problem of pollution <i>and</i> how will our solution help animals and plants survive in the Georgia habitats?	
Grade 4	SCI	Weather/Moon Phases Intro Cloud formation Weather Instruments Moon phases Forecasting the Weather Ask questions Analyzing and interpreting data Constructing explanations Obtaining, evaluating, and communicating Developing and using models Planning and carrying out investigations	Stars, Planets, Moon Technological advances for space Stars Planets Moon Phases Earth's orbit and tilt	Force & Motion Balanced and unbalanced forces Gravitational force Simple machines	Sound/Light Strength and speed of sound vibration Communication device Opaque, transparent, translucent Reflection Refraction Role of Organisms/Flow of Energy Ecosystems Food chains/ webs Changes impacting ecosystems Scarcity, extinction, overabundance
	DQ	How do we predict, measure and forecast weather?		How can we as scientists engineer a contraption that applies the concepts of force and motion to provide entertainment to those around us?	
Grade 5	SCI	Constructive/Deconstructive Forces Geological processes Formation and/or destruction of landforms Classification Grouping animals and plants by their internal and/or external structure Inherited traits Acquired traits	Cells and Microorganisms Magnification tools are needed to observe very small things Plant cell structure and function Animal cell structure and function Microorganisms can be helpful or harmful	Electricity & Magnetism Static electricity Current electricity (human- harnessed) Energy transfer Simple electric circuit Magnetic field and force Release of stored energy Insulators and conductors of electricity Physical & Chemical Changes (intro before testing) Physical changes Chemical changes Phases/States of water are related to temperature changes Energy transfer	Physical & Chemical Changes (con't) Physical changes Chemical changes Phases/States of water are related to temperature changes Energy transfer
	DQ	How do structures withstand extreme forces?		Students will design a game that includes an electrical circuit that could be played during the Cold War time period by children and adults.	