

STEAM Units at a Glance Updated 2022

| | | 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 can studying food systems of indigenous peoples improve food sustainability? | Unit Under Development (Conflict & Cooperation) | How can motivations of populations impact how and where people live? What motivations bring families to MCAA? | How do we develop unique products incorporating local resources as entrepreneurs to productively contribute to the economy of Marietta? What are the opportunity costs of supporting your local economy? |
| 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 | What does revolution look like? | What do my rights look like, as a student at MCAA? | How can new technology help us solve problems as a society expands? | How is the development of new technology affecting the jobs that are available? |
| 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 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 as global citizens address the need for affordable housing in our communities? | How can we design a survival kit to help refugees while they relocate? | New Unit Under Development (Civil Rights) |

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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 can we prevent the damage caused by weathering and erosion at MCAA? | How does investigating and caring for the past help guide our present and our future in this ever changing world? | How can we help solve the problem of pollution and how will our solution help animals and plants survive in the Georgia habitats? | New Unit Under Development |
| 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 Strength and speed of sound vibration Communication device Light 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 design an experiment that could be conducted on the International Space Station? | How can we as scientists engineer a contraption that applies the concepts of force and motion to provide entertainment to those around us? | New Unit Under Development (Ecosystems) |
| Grade 5 | SCI | Constructive/Deconstructive Forces Geological processes Formation and/or destruction of landforms | 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 | Classification Grouping animals and plants by their internal and/or external structure Inherited traits Acquired traits |
| | DQ | How can we design a home that can withstand the natural forces of an earthquake? | What characteristics and features of microorganisms make them beneficial or harmful? | New Unit Under Development (Electricity & Magnetism) | How do scientists classify living things? What is the naming process of new plants/animals? |