

GCCS Expedition Curriculum Framework

Time Period	PREHISTORY	FIRST PEOPLES OF THE AMERICAS/ EXPLORERS	SETTLER & COLONIAL LIFE	VILLAGE TO CITY	CITY GROWS	TODAY & TOMORROW
Approx. Dates	Big Bang – First People 4,500 MYA-12,000 Years Ago	First Peoples of the Americas – European Contact 12,000 Years Ago-1600	European Contact – Pre-Canal 1450-1820	Canal – Civil War 1820-1865	Post Civil War – Pre-space exploration 1865-1960	Space Exploration – Future 1960-Tomorrow
Over-arching Question	What were the beginnings of our universe, our planet, and its living things? How do we know?	How did people live in earliest times? What lasting ideas do we have from early cultures and civilizations?	How did people make choices about where to live? What were the beginnings of our democracy?	How did the village become a city? What were the successes and struggles?	How did industry and inventions make a difference in city life? How did people take responsibility for their community?	Where and how do plants and animals live? How do people keep the environment safe for every living thing?
K-1	<p>Prehistoric Life</p> <p>Time and Sequence</p> <p>Prehistoric Life: Warm Seas (trilobite, brachiopod, eurypterid, horn coral, crinoid)</p> <p>Land Animals (mastodon, mammoth)</p> <p>Animal Defenses</p> <p>Fossil Formation: Living and Non-living Things</p> <p>Maps and Globes</p>	<p>Haudenosaunee Way of Life Prior to 1600</p> <p>Beliefs and Traditions</p> <p>Family and Community Roles</p> <p>Natural Resources: Food, Clothing, and Shelter, Woodland Animals</p> <p>Locating Haudenosaunee Nation on Globe and Map</p>	<p>Settler Life: The Story of the Settlement of Rochester</p> <p>Going to New Places/Reasons for Change</p> <p>Economic Opportunity: Needs & Wants</p> <p>Development of Community</p> <p>Physical Environment/Natural Resources</p> <p>Farming and Crops</p> <p>Maps and mapping tools</p>	<p>Village Life</p> <p>Community Roles and Responsibilities</p> <p>The Need for Rules and Laws</p> <p>Economic Systems: Needs and Wants</p> <p>Early Occupations</p> <p>Agricultural Economy</p> <p>Seasons/Cycles: Four Seasons</p> <p>Related Weather Patterns</p> <p>How Seasons Affected Villagers’ Work</p>	<p>Technological Changes in Work and Play</p> <p>Types of communities: Urban, Suburban, Rural</p> <p>City Infrastructures</p> <p>Household Inventions</p> <p>Changing Families</p> <p>Maps</p>	<p>Pollution and Its Effects on Local Habitats</p> <p>Local Ecosystems and Habitats: Plant and Animal Adaptations and Survival needs</p> <p>Food Chain and Food Web</p> <p>Relationship between Living and Non-living Things: Environmental Change</p> <p>Habitat Destruction</p> <p>Conservation of Natural Resources</p>

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2-3	<p>Origin of the Universe</p> <p>Earth’s Place in the Universe: Solar System Origin Theories</p> <p>The Sun: Source of Heat and Light</p> <p>Day and Night</p> <p>Seasonal Cycles</p> <p>Gravitational Force</p>	<p>American Indian Nations of North America</p> <p>Climate, Geography, and Natural Resources</p> <p>Role of men, women, and children</p> <p>Patterns of organization and governance</p> <p>Economics of Natural Resources</p> <p>Mapping: Regions of North America</p>	<p>Living along the Genesee River</p> <p>Geography and Natural Resources</p> <p>The River as a Resource for Transportation, Power, Food, Water, and Irrigation</p> <p>Going to New Places/Reasons for Change:</p> <p>Rochester’s Earliest Settlers and the Seven Settlements</p> <p>Community Interdependence</p> <p>Challenges meeting needs and wants</p> <p>Scarcity</p> <p>Beginnings of a Milling Economy</p> <p>Mapping: New York State</p>	<p>America’s First Boom Town</p> <p>Economic Systems: Milling and Water Power</p> <p>Erie Canal</p> <p>Early Transportation</p> <p>Forces and Interactions: Simple Machines</p> <p>Changes in Communities: Flour City to Flower City</p> <p>Mapping: City/Street Maps</p>	<p>The Nursery Industry</p> <p>Local Economic System: Connections Between Industries - Printing & Nurseries</p> <p>Seeds and Plants: Plant Structures Photosynthesis Reproduction</p> <p>Climate: The Water Cycle Lake Effect Weather Maps</p>	<p>Human Effects on World Biomes</p> <p>Comparing Local Woodland, Pond, and River Biomes with World Desert, Ocean, Swamp, Tundra, and Rainforest Biomes</p> <p>Wildlife Around the World: Classification Adaptations Food Web Endangered Species Life Cycles (including Metamorphosis)</p> <p>Protecting and Rehabilitating World Habitats</p>

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4-5	<p>Earth's Systems</p> <p>Geosphere: Volcanoes Rocks & Minerals Land Formations Layers of the Earth Fossil Formation Erosion</p> <p>Hydrosphere: States of Water Glaciers River Formation</p> <p>Biosphere: Human interaction with the Earth</p> <p>Plate Tectonics</p> <p>Mapping New York State: Topographical Maps</p> <p>Organizing Geological Time</p>	<p>Early People & Exploration</p> <p>Early Peoples of the Americas: Migration routes Settlement Natural Resources</p> <p>European Exploration: Looking for Markets Trade Opportunities New Resources</p> <p>French & Indian War</p> <p>Mapping the World: World Geography Oceans Continents Land Formations Latitude & Longitude</p>	<p>Formation of Democracy in the United States</p> <p>Colonization of North America Revolutionary War Declaration of Independence Constitution Bill of Rights</p> <p>Levels and Functions of Government</p> <p>Colonial Experience: Europeans Free and enslaved Africans</p>	<p>The Quest for Freedom</p> <p>Slavery and Women's Rights: Voices of Dissent The Underground Railroad Civil War Suffrage</p> <p>Economic and Social Issues: North vs. South</p> <p>Rochester's Early Leaders: Frederick Douglass Susan B. Anthony Harriet Tubman Sojourner Truth Elizabeth Cady Stanton Austin Steward</p>	<p>Immigration and Local Industry</p> <p>Moving to an Industrial Economy: Changing Nature of Work Industrial Revolution Assembly Line Mass Production Working Conditions</p> <p>The Work Force: Immigration Population Shifts Labor Movement Child labor Formation of Labor Laws Unions</p> <p>Local Industries & Entrepreneurs: Eastman Kodak Xerox Bausch & Lomb Gleason Works Cutler Mail Chutes Ward's Natural Science Hickey Freeman Wegmans Food Markets</p>	<p>Human Impact on the Natural World</p> <p>Energy: Types of Energy Alternate Sources of Energy</p> <p>Conservation of Natural Resources: Water Quality Soil Quality</p> <p>Role of Science, Engineering, and Technology</p> <p>Community Activism</p>

**Sixth Grade Curriculum
Examining a “Hot Topic” Affecting Our Community**

The Rise of Civilization	The Science of Materials	Imagining a New Rochester
<p>Posing the problem Defining the Issue Facing Rochester Setting Purpose for Year’s Study</p> <p>The Evolution of Cities Where People Settled Advances that Made Settlement Possible</p> <p>The Characteristics of Civilizations Settlement in Cities Labor Specialization Government and Public Works Surplus Production and Trade Class Structure Writing, Mathematics, Science</p> <p>The Components of Cities Concentration of People Government</p> <p>Challenges Cities Face Transportation Sanitation Food and Water Public Health Crime</p>	<p>Properties of Matter Mass Volume Density Solubility Conductivity</p> <p>Chemical Structures of Materials Compounds Mixtures Solutions, Suspensions</p> <p>Chemical Reactions and Changes in States of Matter</p> <p>Atoms, Elements, and The Periodic Table</p> <p>Models as Representations of Objects, Structures, and Systems</p>	<p>City Decision-making Who’s Who in City Government Process of Making Municipal Projects Happen Issues of Economics and Historic Preservation</p> <p>Citizens’ Roles and Responsibilities Community Activism Formation of Associations/Societies/grass Roots Organizations Working with City Government</p> <p>Gathering Community Input and Disseminating Information Gathering Community Input Analyzing Qualitative Data Principles of Marketing</p> <p>Elements of a New Rochester Housing Recreation Retail Historic Preservation Transportation Events</p>