

Siebert Elementary School

Programme of Inquiry 2016-2017

Age/ Grade	An Inquiry into:					
	Who We Are	Where We Are in Place and Time	How We Express Ourselves	How the World Works	How We Organize Ourselves	Sharing the Planet
	<i>An inquiry into the nature of the self; beliefs and values; personal, physical, mental, social and spiritual health; human relationships including families, friends, communities and cultures; rights and responsibilities; what it means to be human</i>	<i>An inquiry into orientation in place and time; personal histories; homes and journeys; the discoveries, explorations and migrations of humankind; the relationships between and the interconnectedness of individuals and civilizations, from local and global perspectives.</i>	<i>Inquiry into the ways in which we discover and express ideas, feelings, nature, culture, beliefs and values; the ways in which we reflect on, extend and enjoy our creativity; our appreciation of the aesthetic.</i>	<i>Inquiry into the natural world and its laws, the interaction between the natural world (physical and biological) and human societies; how humans use their understanding of scientific principles; the impact of scientific and technological advances on society and on the environment</i>	<i>Inquiry into the interconnectedness of human-made systems and communities; the structure and function of organizations; societal decision-making; economic activities and their impact on humankind and the environment.</i>	<i>Inquiry into rights and responsibilities in the struggle to share finite resources with other people and other living things; communities and the relationship within and between them; access to equal opportunities; peace and conflict resolution.</i>
Ages 5-6 Kindergarten	<p>Central Idea: Humans observe and learn about their world using their five senses.</p> <p>Key Concepts: -Reflection -Responsibility</p> <p>Related Concepts: -Five Senses -Observation</p> <p>Lines of Inquiry: <i>An inquiry into:</i></p> <ul style="list-style-type: none"> the five senses how to explore the world using our five senses how our senses enhance our experiences 	<p>Central Idea: Studying our own lives and the lives of others allows us to understand how people and things change over time.</p> <p>Key Concepts: -Connection -Change</p> <p>Related Concepts: -History -Chronology</p> <p>Lines of Inquiry: <i>An inquiry into:</i></p> <ul style="list-style-type: none"> our personal histories as individuals how people and things change over time the past, present, and future 	<p>Central Idea: People can inspire others through their words and actions.</p> <p>Key Concepts: -Perspective -Responsibility</p> <p>Related Concepts: -Opinion -Expression</p> <p>Lines of Inquiry: <i>An inquiry into:</i></p> <ul style="list-style-type: none"> the meaning of opinion using details to support our opinions ways in which we can share our opinions 	<p>Central Idea: People observe the movement of objects in the world around them to understand how forces work.</p> <p>Key Concepts: -Function -Causation</p> <p>Related Concepts: -Gravity -Forces</p> <p>Lines of Inquiry: <i>An inquiry into:</i></p> <ul style="list-style-type: none"> the use of positional words to describe an objects' location the meaning of force (push and pull) how we use forces in the world around us 	<p>Central Idea: Humans make decisions based on needs and wants and goods and services.</p> <p>Key Concepts: -Connection -Function</p> <p>Related Concepts: -Goods and Services -Exchange -Decision Making</p> <p>Lines of Inquiry: <i>An inquiry into:</i></p> <ul style="list-style-type: none"> the meaning of needs and wants how needs and wants influence decisions the goods and services available in our community 	<p>Central Idea: Living things have observable characteristics that connect them to other living things.</p> <p>Key Concepts: -Form -Connection -Change</p> <p>Related Concepts: -Environment -Survival</p> <p>Lines of Inquiry: <i>An inquiry into:</i></p> <ul style="list-style-type: none"> living and non-living things classification of animals based on similarities and differences characteristics that allow animals to survive in their environment
Ages 6-7 1st Grade	<p>Central Idea: Our relationships with our family and our traditions reflect our identity.</p> <p>Key Concepts: -Causation -Connection</p> <p>Related Concepts: -Identity -Families</p> <p>Lines of Inquiry: <i>An inquiry into:</i></p> <ul style="list-style-type: none"> family traditions how families are different (family identity) family origins the ways that families are connected 	<p>Central Idea: Understanding the past guides how decisions are made.</p> <p>Key Concepts: -Change -Reflection</p> <p>Related Concepts: -History -Time</p> <p>Lines of Inquiry: <i>An inquiry into:</i></p> <ul style="list-style-type: none"> how changes from the past connect to our lives today how things today are different than in the past methods for studying time 	<p>Central Idea: Writing allows us to express our feelings, thoughts, and experiences.</p> <p>Key Concepts: -Form -Perspective</p> <p>Related Concepts: -Structure -Point of View</p> <p>Lines of Inquiry: <i>An inquiry into:</i></p> <ul style="list-style-type: none"> how we can entertain through writing how we can inform through writing how we can persuade through writing 	<p>Central Idea: People use a variety of tools to learn about the world around them.</p> <p>Key Concepts: -Function -Form</p> <p>Related Concepts: -Scientific Method -Measurement</p> <p>Lines of Inquiry: <i>An inquiry into:</i></p> <ul style="list-style-type: none"> how asking questions builds knowledge how tools guide us in making observations how to record and analyze information 	<p>Central Idea: Rules and routines provide order.</p> <p>Key Concepts: -Form -Responsibility</p> <p>Related Concepts: -Citizenship -Rules</p> <p>Lines of Inquiry: <i>An inquiry into:</i></p> <ul style="list-style-type: none"> why we need rules rules for different situations what makes a good citizen 	<p>Central Idea: Humans have the ability to care for the world around them.</p> <p>Key Concepts: -Responsibility -Connection</p> <p>Related Concepts: -Life Cycles -Needs</p> <p>Lines of Inquiry: <i>An inquiry into:</i></p> <ul style="list-style-type: none"> ways in which people care for the world around them how understanding lifecycles helps humans care for plants and animals how humans can help meet the needs of living things

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Ages 7-8 2nd Grade	<p>Central Idea: Humans are alike and different.</p> <p>Key Concepts: -Connection -Reflection</p> <p>Related Concepts: -Identity -Belonging</p> <p>Lines of Inquiry: <i>An inquiry into:</i></p> <ul style="list-style-type: none"> the ways in which individuals are alike the ways in which individuals are unique why individuals act in different ways 	<p>Central Idea: Communities change over time.</p> <p>Key Concepts: -Connection -Perspective</p> <p>Related Concepts: -Communities -History</p> <p>Lines of Inquiry: <i>An inquiry into:</i></p> <ul style="list-style-type: none"> differences in communities in the past and present similarities and differences in rural and city communities how discoveries and ideas change a community over time 	<p>Central Idea: People engage in a variety of ways to communicate for different reasons.</p> <p>Key Concepts: -Form -Responsibility</p> <p>Related Concepts: -Communication -Self-Expression</p> <p>Lines of Inquiry: <i>An inquiry into:</i></p> <ul style="list-style-type: none"> different forms of communication reasons for communication how stories help us to communicate about our lives 	<p>Central Idea: Plants impact life on Earth.</p> <p>Key Concepts: -Function -Form</p> <p>Related Concepts: -Interdependence -Needs</p> <p>Lines of Inquiry: <i>An inquiry into:</i></p> <ul style="list-style-type: none"> what plants need to survive the life cycle of plants why plants are important 	<p>Central Idea: Communities make decisions to benefit citizens.</p> <p>Key Concepts: -Causation -Change</p> <p>Related Concepts: -Roles -Order</p> <p>Lines of Inquiry: <i>An inquiry into:</i></p> <ul style="list-style-type: none"> community leadership how communities use money and resources How communities make decisions 	<p>Central Idea: Water is a limited resource that is vital to life on Earth.</p> <p>Key Concepts: -Perspective -Responsibility</p> <p>Related Concepts: -Natural Resources -Cycles</p> <p>Lines of Inquiry: <i>An inquiry into:</i></p> <ul style="list-style-type: none"> sources and uses of water responsibility and availability of useable water how the water cycle supports life on Earth
Ages 8-9 3rd Grade	<p>Central Idea: People strive for justice and equality through rights and responsibilities.</p> <p>Key Concepts: -Responsibility -Perspective</p> <p>Related Concepts: -Discrimination -Justice</p> <p>Lines of Inquiry: <i>An inquiry into:</i></p> <ul style="list-style-type: none"> justice and equal rights how diverse groups pursue equality the responsibility society plays in maintaining justice 	<p>Central Idea: Humans are influenced by the people and places around them.</p> <p>Key Concepts: -Reflection -Connection</p> <p>Related Concepts: -Interconnectedness -Culture</p> <p>Lines of Inquiry: <i>An inquiry into:</i></p> <ul style="list-style-type: none"> how culture is influenced by the interconnectedness of people how geographic features affect the culture of a place the ways in which economics affects the movement of people 	<p>Central Idea: Light and sound can enhance experiences.</p> <p>Key Concepts: -Form -Causation</p> <p>Related Concepts: -Self-Expression -Aesthetics</p> <p>Lines of Inquiry: <i>An inquiry into:</i></p> <ul style="list-style-type: none"> elements of light and sound how light and sound are a part of daily life how light and sound can be used for creative expression 	<p>Central Idea: Organisms adapt to survive.</p> <p>Key Concepts: -Function -Causation -Change</p> <p>Related Concepts: -Adaptation -Cycles</p> <p>Lines of Inquiry: <i>An inquiry into:</i></p> <ul style="list-style-type: none"> how the environment affects the behavior of organisms how organisms adapt to survive how organisms move, grow, and transform to ensure survival 	<p>Central Idea: Humans create systems for organization.</p> <p>Key Concepts: -Form -Function</p> <p>Related Concepts: -System -Structure</p> <p>Lines of Inquiry: <i>An inquiry into:</i></p> <ul style="list-style-type: none"> how organization creates order how maps provide uniform systems and boundaries the systems countries create for structure 	<p>Central Idea: Earth's resources are used in a variety of ways to benefit humans.</p> <p>Key Concepts: -Responsibility -Connection</p> <p>Related Concepts: -Conservation -Renewable/Non-Renewable Resources</p> <p>Lines of Inquiry: <i>An inquiry into:</i></p> <ul style="list-style-type: none"> natural resources and human-made materials uses of natural resources the impact of humans' use of natural resources

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Ages 9-10 4th Grade	<p>Central Idea: Humans have the ability to observe problems and work to solve them or create solutions.</p> <p>Key Concepts: -Change -Perspective -Reflection</p> <p>Related Concepts: -Action -Consequences</p> <p>Lines of Inquiry: <i>An inquiry into:</i></p> <ul style="list-style-type: none"> the exploration of issues from different perspectives how change is driven by reflection the consequences of our actions 	<p>Central Idea: Humans migrate in response to a challenge or opportunity.</p> <p>Key Concepts: -Connection -Reflection</p> <p>Related Concepts: -History -Settlement</p> <p>Lines of Inquiry: <i>An inquiry into:</i></p> <ul style="list-style-type: none"> reasons for migration and immigration the impact of migration reasons for settlement 	<p>Central Idea: People discover and express their ideas in a variety of ways.</p> <p>Key Concepts: -Perspective -Responsibility</p> <p>Related Concepts: -Persuasion -Communication</p> <p>Lines of Inquiry: <i>An inquiry into:</i></p> <ul style="list-style-type: none"> how people discover new information how we express our ideas as individuals how we express our ideas as scientists 	<p>Central Idea: Energy is all around us and is evident in many ways.</p> <p>Key Concepts: -Function -Form</p> <p>Related Concepts: -Energy -Transformation</p> <p>Lines of Inquiry: <i>An inquiry into:</i></p> <ul style="list-style-type: none"> forms of energy how energy is transferred uses of energy 	<p>Central Idea: Citizenship requires responsibility.</p> <p>Key Concepts: -Responsibility -Reflection</p> <p>Related Concepts: -Role -Citizenship</p> <p>Lines of Inquiry: <i>An inquiry into:</i></p> <ul style="list-style-type: none"> what it means to be a citizen the traits of a good citizen ways citizens can take action 	<p>Central Idea: Living things affect one another.</p> <p>Key Concepts: -Connection -Causation</p> <p>Related Concepts: -Interdependence -Habitat -Adaptation</p> <p>Lines of Inquiry: <i>An inquiry into:</i></p> <ul style="list-style-type: none"> the connectedness of living organisms different ecosystems and habitats how organisms have adapted to survive in their ecosystem
Ages 10-11 5th Grade	<p>Central Idea: Identity is developed through a variety of experiences.</p> <p>Key Concepts: -Perspective -Connection</p> <p>Related Concepts: -identity -diversity</p> <p>Lines of Inquiry: <i>An inquiry into:</i></p> <ul style="list-style-type: none"> the impact of slavery commonalities and differences between colonial regions different aspects of colonial life 	<p>Central Idea: Exploration can lead to discoveries, opportunities, new understandings, and change.</p> <p>Key Concepts: -Change -Causation</p> <p>Related Concepts: -Discovery -Exploration -Impact -Progress</p> <p>Lines of Inquiry: <i>An inquiry into:</i></p> <ul style="list-style-type: none"> different types of explorations reasons for explorations how exploration brings about change or discoveries 	<p>Central Idea: History and artifacts allow us to examine the commonalities and differences between cultures.</p> <p>Key Concepts: -Perspective -Connection</p> <p>Related Concepts: -Diversity -Culture -Artifacts</p> <p>Lines of Inquiry: <i>An inquiry into:</i></p> <ul style="list-style-type: none"> different cultural groups the influence of the environment on culture ways of expressing culture 	<p>Central Idea: The human body is made up of interdependent systems.</p> <p>Key Concepts: -Connection -Change</p> <p>Related Concepts: -Systems -Interdependence</p> <p>Lines of Inquiry: <i>An inquiry into:</i></p> <ul style="list-style-type: none"> human body systems how systems work together choices that affect our health 	<p>Central Idea: Humans use government to establish order within their societies.</p> <p>Key Concepts: -Form -Function -Responsibility</p> <p>Related Concepts: -Roles -Order</p> <p>Lines of Inquiry: <i>An inquiry into:</i></p> <ul style="list-style-type: none"> forms of government functions of government impact of government on society 	<p>Central Idea: Conflict impacts humans.</p> <p>Key Concepts: -Reflection -Causation</p> <p>Related Concepts: -Conflict -War</p> <p>Lines of Inquiry: <i>An inquiry into:</i></p> <ul style="list-style-type: none"> how people and groups interact how people perceive events differently causes of conflict conflict resolution