

2009-2010 College Gardens ES IB/PYP Units of Inquiry Matrix

Grade	<u>Who We Are</u>	<u>Where We Are in Place and Time</u>	<u>How We Express Ourselves</u>	<u>How the World Works</u>	<u>How We Organize Ourselves</u>	<u>How We Share the Planet</u>
Pre K	<p style="text-align: center;"><i>Families and Friends</i></p> <p>Central Idea: People need families and friends. Key Concepts: connection, responsibility, reflection Related Concepts: family, roles, communication Lines of Inquiry: -how families are similar and different -how we make and keep friends -why we need families and friends -the family and friends through literature and the arts</p>		<p style="text-align: center;"><i>Tell Me a Story</i></p> <p>Central Idea: Stories inform and provoke us; they give us pleasure and help our imagination grow. Key Concepts: change, perspective, function Related Concepts: traditions, communications Lines of Inquiry: -our favorite stories -the retelling of stories -recording and acting out stories -how stories make us feel -what we learn from stories -creating and conveying our own stories</p>		<p style="text-align: center;"><i>It Takes a Team</i></p> <p>Central Idea: A group of people need to work together to be successful. Key Concepts: causation, connection, perspective Related Concepts: communications, employment, networks Lines of Inquiry: -different jobs in restaurants -how people work together -the importance of working together -elements of a successful restaurant</p>	<p style="text-align: center;"><i>Old McDonald</i></p> <p>Central Idea: Farms provide us with many essential needs. Key Concepts: causation, change, connection Related Concepts: conservation, consumption, interdependence, animals, plants Lines of Inquiry: -farms -what we get from a farm -types of crops -different animals</p>
K	<p style="text-align: center;"><i>What Makes Me Unique?</i></p> <p>Central Idea: All people are similar and different from one another. Key Concepts: family, roles, communication, traditions Related Concepts: genetics, family, diversity, differences, similarities Lines of Inquiry: -myself -families -cultural differences/ similarities between myself and others</p>	<p style="text-align: center;"><i>Oh, the Places We Will Go!</i></p> <p>Central Idea: Journeys can create change and lead to new opportunities Key Concepts: reflection, responsibility, perspective Related Concepts: transportation, climate, exploration Lines of Inquiry: -types of journeys people make -choices and decisions involved in taking a journey -changes experienced because of these journeys</p>	<p style="text-align: center;"><i>Let's Find Out</i></p> <p>Central Idea: We gather, organize, organize and share information to communicate what we have learned. Key Concepts: communication, perspective Related Concepts: communication, progress Lines of Inquiry: -the ways we gather information on a topic -the ways we organize information we have gathered -the different ways we share the information we find</p>	<p style="text-align: center;"><i>Our Changing World</i></p> <p>Central Idea: Environments change over time Key Concepts: form, change, responsibility Related Concepts: adaptations, organisms, resources, innovations, progress Lines of Inquiry: -physical features -human-made features</p>	<p style="text-align: center;"><i>Our Community</i></p> <p>Central Idea: A successful community is filled with people who perform different jobs that help us in our daily lives. Key Concepts: form, connection, perspective Related Concepts: cooperation, governments, citizenship, diversity, rights, roles Lines of Inquiry: -the elements of a successful community -the community members and their jobs -the ways each member (worker) helps us -buildings in a community</p>	<p style="text-align: center;"><i>Survival of the Fittest</i></p> <p>Central Idea: Living things adapt to survive in their environment. Key Concepts: causation, change, form Related Concepts: adaptations, animals, ecosystems, plants, regions Lines of Inquiry: -living things -environments -the ways living things adapt</p>
1	<p style="text-align: center;"><i>Observation, Investigation, and YOU!</i></p> <p>Central Idea: We gather and share information to learn more about cultures around the world Key Concepts: reflection, responsibility, connection Related Concepts: family, diversity, cultures and societies Lines of Inquiry: -personal histories make us who we are -the ways researchers present information found -connections between cultures to make one big world</p>	<p style="text-align: center;"><i>Roam Around!</i></p> <p>Central Idea: Humans use geographical tools to learn about the world around us Key Concepts: function, form, and perspective Related Concepts: geography, borders, regions, migration, exploration Lines of Inquiry: -different types of maps -purpose of geographical tools -exploration</p>	<p style="text-align: center;"><i>Express Yourself</i></p> <p>Central Idea: History is passed down from generation to generation through traditions, storytelling, and song Key Concepts: function, connection, perspective Related Concepts: communication, family, traditions, history Lines of Inquiry: -personal expression -traits of writing -expression of PYP attitudes and profile through literature</p>	<p style="text-align: center;"><i>Cha-Cha-Changes</i></p> <p>Central Idea: Change occurs overtime Key Concepts: connections, change, causation Related Concepts: climate, gases, solids, liquids, sustainability Lines of Inquiry: -the scientific process -change in matter -change in weather -how data is used to make predictions</p>	<p style="text-align: center;"><i>Global Communities: Producers and Consumers</i></p> <p>Central Idea: Resources, services, and goods influence the way communities interact Key Concepts: Causation, responsibility, connection Related Concepts: conservation, consumption, distribution, dependence, impact, regions Lines of Inquiry: -goods and services -resources -producers and consumers</p>	<p style="text-align: center;"><i>Nature Rocks!</i></p> <p>Central Idea: Nature supports life Key Concepts: form, causation, connection Related Concepts: landscape, regions, animals, plants, systems, organisms Lines of Inquiry: -earth's coverings support life -relationships between living and non-living things -caring for our environment</p>

2	<p style="text-align: center;"><i>Peace Begins With Us</i></p> <p>Central Idea: When citizens respect each other and cooperate to resolve problems, a peaceful community is created</p> <p>Key Concepts: form, function, perspective, reflection</p> <p>Related Concepts: citizenship, communication, conflict, history, progress, acceptance,</p> <p>Lines of Inquiry:</p> <ul style="list-style-type: none"> -respect -the ways people cooperate to solve problems -the elements of a peaceful community 	<p style="text-align: center;"><i>One Person Can Make a Difference</i></p> <p>Central Idea: Leader's action shape our world</p> <p>Key Concepts: form, causation, perspective, connection</p> <p>Related Concepts: communication, cooperation, freedom, justice, progress</p> <p>Lines of Inquiry:</p> <ul style="list-style-type: none"> -causes and effects of a leader's action -qualities of a leader -the ways leaders influence the world 	<p style="text-align: center;"><i>All Good Writers...</i></p> <p>Central Idea: Writing is used to communicate ideas, beliefs, information, and customs</p> <p>Key Concepts: form, connection, perspective</p> <p>Related Concepts: communications, traditions</p> <p>Lines of Inquiry:</p> <ul style="list-style-type: none"> -communicating through writing -organization of ideas -author's use of details to engage readers 	<p style="text-align: center;"><i>May the Force Be With You!</i></p> <p>Central Idea: Technological innovations impact on people's lives.</p> <p>Key Concepts: form, connection, causation, reflection</p> <p>Related Concepts: conservation of energy, magnetism, mechanics, technological advancements</p> <p>Lines of Inquiry:</p> <ul style="list-style-type: none"> -technological innovations impact on everyday living -types of simple machines -forces and it's impact on the earth 	<p style="text-align: center;"><i>The Cycle of Life</i></p> <p>Central Idea: All living organisms change and adapt to their environment</p> <p>Key Concepts: change, connection, function</p> <p>Related Concepts: adaptations, animals, organisms, classification, plants, systems</p> <p>Lines of Inquiry:</p> <ul style="list-style-type: none"> -organism's life cycle -adaptations of organisms -impact of interactions between organism 	<p style="text-align: center;"><i>Planet Patrol</i></p> <p>Central Idea: Individuals must work together to respect the natural resources of our planet</p> <p>Key Concepts: form, responsibility, reflection</p> <p>Related Concepts: renewable and non-renewable resources, attitudes, behavior, consequences, responsibilities</p> <p>Lines of Inquiry:</p> <ul style="list-style-type: none"> -natural resources and their importance -the ways we show respect for our planet -global problems affecting our natural resources
3	<p style="text-align: center;"><i>Generations Throughout Time</i></p> <p>Central Idea: We are all a part of our respective families and communities, which in turn is a part of a larger world.</p> <p>Key Concepts: reflection, function, responsibility</p> <p>Related Concepts: diversity, family, identity, roles, traditions, differences, similarities</p> <p>Lines of Inquiry:</p> <ul style="list-style-type: none"> -Culture Diversity -Migration/Immigration -Family Structures 	<p style="text-align: center;"><i>Let's Get Energized</i></p> <p>Central Idea: Energy comes from different sources around the world and can be used in different ways</p> <p>Key Concepts: form, function, and connection</p> <p>Related Concepts: conservation of energy, forms of energy, magnetism, power, technological advances, transformation of energy</p> <p>Lines of Inquiry:</p> <ul style="list-style-type: none"> - resources are found on earth -flow of energy and matter -the effects of temperature on the change of matter -consumptions of resources and environmental impact of energy resources 	<p style="text-align: center;"><i>Beyond Roses Are Red</i></p> <p>Central Idea: Poems can be written to describe various features the world</p> <p>Key Concepts: form, perspective, reflection</p> <p>Related Concepts: communications, geography, landscape, regions</p> <p>Lines of Inquiry:</p> <ul style="list-style-type: none"> -poems communicate feelings and information -identifying and describing poems from various cultures -descriptive words used in poetry 	<p style="text-align: center;"><i>Earth's Place in Space</i></p> <p>Central Idea: A planet's position and movement within the Solar System create natural cycles</p> <p>Key Concepts: form, causation, connection</p> <p>Related Concepts: atmosphere, climate, geography, seasons, space, systems</p> <p>Lines of Inquiry:</p> <ul style="list-style-type: none"> -position of the earth in the our Solar System -changes over time in our Solar System -atmospheric and gravitational effects in our Solar System 	<p style="text-align: center;"><i>It's All About Choices!</i></p> <p>Central Idea: Economic systems and their impact on mankind</p> <p>Key Concepts: form, function, causation</p> <p>Related Concepts: communications, cooperation, governments, production, transportation</p> <p>Lines of Inquiry:</p> <ul style="list-style-type: none"> -the production and exchange of goods and services -organization of economic systems -the difference between wants and needs 	<p style="text-align: center;"><i>Plants</i></p> <p>Central Idea: Plants are needed by all living things</p> <p>Key Concepts: function, change, and connection</p> <p>Related Concepts: adaptations, classification, ecosystems, growth, habitat, organisms, plants, systems</p> <p>Lines of Inquiry:</p> <ul style="list-style-type: none"> -plants adaptation to their environment -the characteristics that make plants unique -the interactions and relationships between plants and their environment -the interaction and relationships between people and plants

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The Wind Beneath My Wings

Central Idea: Influential people have helped shape who we are today
Key Concepts: connection, perspective, reflection
Related Concepts: communications, conflict, history, opinions, roles
Lines of Inquiry:
 -influential people
 -their impact on society
 -their impact on individuals

We Are the World

Central Idea: The past influences our present and has implications for the future
Key Concepts: change, perspective, reflection
Related Concepts: artifacts, citizenship, conflicts, diversity, governments, history, innovation, progress
Lines of Inquiry:
 -learn about the past
 -individuals and societies change over time
 -different perspectives of past conflicts and compromises

Slow and Steady Wins the Race

Central Idea: Fables are stories passed down through generations and across cultures
Key Concepts: function, perspective, connection
Related Concepts: communication, culture, history, chronology, lessons through literature
Lines of Inquiry:
 -the characteristics of fables
 -cultural fables throughout time
 -the lessons taught through fables

Old Crusty

Central Idea:
 The Earth is made of many layers which change in shape and form over time.
Key Concepts: form, function, causation
Related Concepts: erosion, geography, resources, sustainability, tectonic plate movement
Lines of Inquiry:
 -the Earth's layers
 -the natural forces that cause the Earth to change
 -the changes in the Earth's layers and surface features

How Do We Get There

Central Idea: the past influences our present and has implications for the future
Key Concepts: causation, reflection, perspective
Related Concepts: chronology, civilizations, discovery, exploration, history, progress
Lines of Inquiry:
 -individuals and societies change overtime (settlement and migration)
 -political structures
 -different perspectives of past conflict and compromises

What? We Have To Share This Planet!

Central Idea: Interactions of living and non-living things within an ecosystem
Key Concepts: function, causation, change
Related Concepts: ecosystems, habitat, organisms, plants, systems, systems
Line of Inquiry:
 -adaptations
 -interactions and relationships between organisms in an ecosystem
 -food chain in an ecosystem

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Learning from the Past

Central Idea: Reading historical fiction adds to our knowledge and understanding of the past
Key Concepts: connection, perspective, reflection
Related Concepts: history, chronology, societies, prejudice, rights, roles, traditions, governments, discovery
Lines of Inquiry:
 -the characteristics/elements of historical fiction
 -individuals and societies change overtime
 -impact of geographical characteristics of places and regions

Scientific Discoveries

Central Idea: The study and applications of scientific understanding throughout time
Key Concepts: causation, change, connection
Related Concepts: conservation of energy, forms of energy, magnetisms, mechanics, physics, power, technological advancements
Lines of Inquiry:
 -the study of energy
 -the impact of scientific discoveries
 -technological advancements

People Revolt

Central Idea: People revolt to cause change
Key Concepts: form, causation, reflection
Related Concepts: chronology, civilization, conflict, exploration, history, migration, progress, revolution
Lines of Inquiry:
 -the causes of revolution
 -peaceful and non-peaceful ways people revolt
 -the consequences of revolution

Matter of Fact

Central Idea: Our continuously changing world impacts its inhabitants
Key Concepts: change, connection, function
Related Concepts: changes of state, chemical and physical changes, conduction and convention, density, gases, liquids, properties and uses of materials, solids
Lines of Inquiry:
 -matter and its physical properties
 -changes of state
 the impact of scientific discoveries

So, Who's in Charge?

Central Idea: Mankind functions under all different forms of governing bodies
Key Concepts: function, connection, responsibility
Related Concepts: communication, conflict, cooperation, freedom, government, justice, legislation, citizenship, networks
Lines of Inquiry:
 -functions of government
 -purpose of government
 -what makes a society work

5th Grade Exhibition

*Coming May
 2010*