

Miras International School Astana
Programme of Inquiry
SY 2018-2019

	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>An 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>An 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>An 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>An inquiry into rights and responsibilities in the struggle to share finite resources with other people and with other living things; communities and the relationships within and between them; access to equal opportunities; peace and conflict resolution.</i>
3-4 P1	<p>Taking Care of Myself</p> <p>Central idea: I can learn to take care of myself.</p> <p>Key concepts: form, function, responsibility</p> <p>Related concepts: similarities, differences, relationships</p> <p>Lines of inquiry:</p> <ul style="list-style-type: none"> Parts of my body How my body works How I can take care of my body 		<p>Expressing Myself</p> <p>Central Idea: I can express myself through play.</p> <p>Key concepts: form, perspective, responsibility</p> <p>Related concepts: interaction, agreements</p> <p>Lines of Inquiry:</p> <ul style="list-style-type: none"> Games I play with my friends What I express and learn when playing How to behave when playing 	<p>Materials</p> <p>Central Idea: Materials behave in certain ways and can be changed and used for different purposes.</p> <p>Key concepts: function, causation, change</p> <p>Related concepts: properties, relationships</p> <p>Lines of inquiry:</p> <ul style="list-style-type: none"> How different materials behave How materials can be changed How and why we use different materials 		<p>Living Things</p> <p>Central idea: Living things have certain requirements in order to grow and stay healthy.</p> <p>Key concepts: function, responsibility</p> <p>Related concepts: classification, impact, consequences</p> <p>Lines of inquiry:</p> <ul style="list-style-type: none"> Characteristics of living things Our needs and the needs of other living things Our responsibility for the well-being of other living things
4-5 P2	<p>My Family</p> <p>Central idea: Family relationships contribute in the shaping of our identity.</p> <p>Key concepts:</p>	<p>My Home</p> <p>Central idea: My home provides my needs.</p> <p>Key concepts: Form, connection, causation</p>	<p>My Feelings</p> <p>Central Idea: Feelings can be expressed properly.</p> <p>Key concepts: form, causation, reflection</p>	<p>Earth's Cycles</p> <p>Central Idea: Earth's cycles affect our activities.</p> <p>Key concepts: causation, change</p>		

	<p>function, responsibility, reflection</p> <p>Related concepts: similarities ,differences, role</p> <p>Lines of inquiry:</p> <ul style="list-style-type: none"> • Diversity of families • Responsibilities within the family • How families influence who we are 	<p>Related concepts: diversity, structure, needs</p> <p>Lines of inquiry:</p> <ul style="list-style-type: none"> • Who needs a home • What makes a home • Reasons why we need homes 	<p>Related concepts: expression, feelings</p> <p>Lines of inquiry:</p> <ul style="list-style-type: none"> • Different kinds of feelings • Reasons why I feel them • Ways I can express my feelings properly 	<p>Related concepts: cycles, interaction, pattern, impact</p> <p>Lines of inquiry:</p> <ul style="list-style-type: none"> • Night and day cycle • Seasonal changes • How these cycles affect us 		
<p>4.5 5.5 PreKG</p>	<p>My Friends</p> <p>Central Idea: My friends can help me become a better person.</p> <p>Key concepts: causation, perspective, responsibility,</p> <p>Related concepts: relationship, conflict, behavior</p> <p>Lines of inquiry:</p> <ul style="list-style-type: none"> • Who my friends are • How my friends help me • How friends treat each other 		<p>My Stories</p> <p>Central idea: I can express myself through stories.</p> <p>Key concepts: form, connection, perspective</p> <p>Related concepts: communication, values,</p> <p>Lines of inquiry:</p> <ul style="list-style-type: none"> • What I can express through stories • How people share stories • What can I learn from stories 	<p>Transportation</p> <p>Central idea: People use different transportation to meet their needs.</p> <p>Key concepts: form, function, causation,</p> <p>Related concepts: movement, transportation</p> <p>Lines of inquiry:</p> <ul style="list-style-type: none"> • Different kinds of transportation • How different transportation works • How transportation meets our needs 		<p>Choices and Living Things</p> <p>Central Idea: Choices impact the environment and living things.</p> <p>Key concepts: change, responsibility, causation</p> <p>Related concepts: consequences, impact, role</p> <p>Lines of inquiry:</p> <ul style="list-style-type: none"> • Why do we need to care about the environment • How can we save the environment • What is my role in saving the environment
<p>5-6 KG</p>	<p>Celebrations (3)</p> <p>Central idea: Celebrations reflect the beliefs and values of communities.</p> <p>Key concepts: causation, form, connection</p> <p>Related concepts: Beliefs, values, culture</p> <p>Lines of inquiry:</p> <ul style="list-style-type: none"> • Reasons why people celebrate 	<p>Personal history (5)</p> <p>Central idea: Documenting personal histories allows us to reflect on and celebrate who we are and where we've come from.</p> <p>Key concepts: change, reflection, causation</p> <p>Related concepts: Family, growth, evidence</p> <p>Lines of inquiry:</p>	<p>Ideas, Feelings and Art (4)</p> <p>Central Idea: Ideas and feelings can be expressed through arts.</p> <p>Key concepts: Form, perspective, reflection</p> <p>Related concepts: creativity, audience</p> <p>Lines of inquiry:</p> <ul style="list-style-type: none"> • Different forms of art 	<p>Living Things Change (2)</p> <p>Central idea: All living things go through a process of change.</p> <p>Key concepts: Form, connection, change</p> <p>Related concepts: cycles, transformation, process</p> <p>Lines of inquiry:</p> <ul style="list-style-type: none"> • Different living things 	<p>Our School (1)</p> <p>Central idea: A school is a place where people have interconnected jobs that helps to keep it organized.</p> <p>Key concepts: function, connection, causation</p> <p>Related concepts: Behavior, role, impact</p>	<p>Taking Care of Earth (6)</p> <p>Central idea: People establish practices in order to sustain and maintain the Earth's resources.</p> <p>Key Concepts: change, responsibility, reflection</p> <p>Related Concepts:</p>

	<ul style="list-style-type: none"> • Features of celebrations • Similarities and differences between celebrations 	<ul style="list-style-type: none"> • Personal histories are documented differently • People change from birth to present • Past experiences help us to reflect on our growth 	<ul style="list-style-type: none"> • Ways to communicate through arts • How different forms of art make us feel 	<ul style="list-style-type: none"> • Developmental stages of living things • How living things change over their life time 	Lines of inquiry: <ul style="list-style-type: none"> • People’s jobs in schools • How jobs in schools are interconnected • How these jobs keep schools organized 	Lifestyle, resources, ingenuity Lines of Inquiry: <ul style="list-style-type: none"> • Personal choices that can help sustain a healthy environment • Practices to reduce waste • Reusing and recycling different materials
6-7 G1	Five Senses (2) Central Idea: The five senses help us learn about the environment. Key concepts: Function, causation, reflection Related concepts: Empathy, systems, responsibility Lines of inquiry: <ul style="list-style-type: none"> • The function and importance of our five senses • How we use our senses to learn about the world • How to take care of the senses organs 	Homes Around the World (5) Central Idea: Through time people build their homes in different places and make them special in different ways. Key concepts: Change, causation, perspective Related concepts: Impact, adaptation, opinion Lines of inquiry: <ul style="list-style-type: none"> • Homes around the world • Ways homes reflect local culture and environment • Ways we make homes special 	Expressing Imagination (3) Central Idea: People can use their imagination to think, create and express themselves. Key concepts: Form, connection, perspective Related concepts: Ingenuity, interpretation Lines of inquiry: <ul style="list-style-type: none"> • Ways we can express our imagination • The connection between imagination and creativity • The ideas we express through our work 	Sound and Light (4) Central Idea: Sound and light affect our lives in many ways. Key concepts: change, form, connection, Related concepts: Evidence, energy, impact Lines of inquiry: <ul style="list-style-type: none"> • Properties of sound and light • Uses of sound and light • The effects of sound and light in the environment 	Our Communities (1) Central idea: Communities are organized to meet the needs of people. Key concepts: form, function, responsibility Related concepts: community, role, needs Lines of inquiry <ul style="list-style-type: none"> • What a community is • The needs of people in communities • Ways communities are organized to meet people’s needs 	Plants (6) Central Idea: Plants are a life-sustaining resource for us and for other living things. Key concepts: Form, change, responsibility Related concepts: Pattern, growth, initiative Lines of inquiry: <ul style="list-style-type: none"> • Conditions for plants to grow and stay healthy • Reasons why living things need plants • Ways we can take care of plants
7-8 G2	Human Development (1) Central Idea: Human development involves a process of change. Key concepts: Change, connection, causation Related concepts: process, development Lines of inquiry: <ul style="list-style-type: none"> • The life cycle of people 	Our Cities (5) Central Idea: A city is a place where people live and work. Key concepts: form, connection, change Related concepts: Structure, interdependence, transformation Lines of inquiry: <ul style="list-style-type: none"> • What makes a city 	Stories and Imagination (3) Central Idea: People can use their imagination to create stories. Key concepts: causation, perspective, function Related concepts: Communication, opinion, interpretation	Matter and Materials (4) Central Idea: The materials we choose to use depend on their properties. Key concepts: function, change, causation Related concepts: Pattern, impact, transformation	Development of Transportation (6) Central Idea: The development of transportation systems affects the environment and the quality of people’s lives. Key concepts: Form, function, causation Related concepts: Properties, systems, impact	Animals (2) Central Idea: Animals have many characteristics that allow them to adapt and survive. Key concepts: causation, connection, responsibility Related concepts: Classification, homeostasis, adaptation

	<ul style="list-style-type: none"> The characteristics of people in different stages of growth How changes during our development affect us and our environment 	<ul style="list-style-type: none"> Differences and similarities between cities around the world People influence the development of their cities 	Lines of inquiry: <ul style="list-style-type: none"> Purposes of stories The feelings and ideas people express through stories Different ways stories are shared 	Lines of inquiry: <ul style="list-style-type: none"> Properties of materials How materials change Materials and their purpose 	Lines of inquiry: <ul style="list-style-type: none"> Specific purposes and function of different transportation systems How transport system has developed through time The effect of transportation systems on the environment and people's lives 	Lines of inquiry: <ul style="list-style-type: none"> The classification of animals Ways animals adapt to their environment How animals and people help each other to survive
8-9 G3	Human Body (3) Central Idea: The human body systems work together to keep the body functioning. Key concepts: function, connection, responsibility Related concepts: Structure, system, relationships, Lines of inquiry: <ul style="list-style-type: none"> The parts and function of different body systems How the body systems are interconnected Ways to be physically and emotionally healthy 	Communicating Location (1) Central Idea: Overtime, people have created new ways to communicate location. Key concepts: change, causation, function Related concepts: Pattern, geography, interpretation Lines of inquiry: <ul style="list-style-type: none"> Ways we communicate location through time Different purposes of mapping Exploring location locally and globally 	Art Forms Around the World (6) Central Idea: Art forms reflect unique qualities of people and cultures. Key concepts: Form, connection, perspective Related concepts: Expression, culture, creativity Lines of inquiry: <ul style="list-style-type: none"> Different unique art forms in different cultures What unique art forms express about different people and cultures Art style and techniques development 	Weather and Climate (2) Central Idea: Weather and climate affect our everyday lives. Key concepts: connection, causation, reflection Related concepts: Impact, interdependence, Lines of inquiry: <ul style="list-style-type: none"> Types of weather in different climactic zones Causes of different climate patterns around the world How human actions are connected to weather and climate 	People Helping People (4) Central idea: People from around the world are involved in helping others in need. Key concepts: causation, responsibility, reflection Related concepts: Rights, duty, population Lines of inquiry: <ul style="list-style-type: none"> Identifying people in need Global and local action that help people in need Role of organizations in empowering people in need 	Water (5) Central Idea: Water affects every aspect of the planet. Key concepts: Function, causation, responsibility Related concepts: Conservation, cycle Lines of inquiry: <ul style="list-style-type: none"> Sources of water Use and conservation of water Human actions that affect water resources
9-10 G4	Healthy Choices (1) Central idea: Making healthy choices makes a balanced person. Key concepts: change, perspective, responsibility Related concepts:	Historical Figures (2) Central idea: Historical figures helped shift people's views that affect our present lives. Key concepts: change, causation, perspective	Intercultural Understanding (4) Central Idea: Intercultural understanding can be facilitated by sharing our customs and traditions. Key concepts: perspective, causation	Energy (6) Central Idea: Energy may be converted from one form to another and stored in various ways. Key concepts: form, function, connection Related concepts:	Active Citizenship (3) Central idea: Active citizens become engaged in discussions and actions to better the society. Key concepts: responsibility, causation, reflection	Resource Management (5) Central Idea: Managing resources affects the quality of life of our present and future generations. Key concepts: form, causation,

	<p>organism, wellness</p> <p>Lines of inquiry:</p> <ul style="list-style-type: none"> Needs of our bodies Factors that contribute towards a balanced person Making responsible healthy choices 	<p>Related concepts: historical figures, influence, impact</p> <p>Lines of inquiry:</p> <ul style="list-style-type: none"> Local and global historical figures Their accomplishments and influence Their impact to today's world 	<p>Related concepts: adaptation, opinion, stereotypes</p> <p>Lines of inquiry:</p> <ul style="list-style-type: none"> Expressing customs and traditions locally and globally Ways to build intercultural awareness The importance of intercultural understanding 	<p>conservation, transformation, energy</p> <p>Lines of inquiry:</p> <ul style="list-style-type: none"> Forms of energy The storage and transformation of energy Renewable and sustainable energy 	<p>Related concepts: citizenship, diplomacy</p> <p>Lines of inquiry:</p> <ul style="list-style-type: none"> The role of citizens in building a nation Ways governments and citizens work together Ways different countries work together in today's world 	<p>responsibility</p> <p>Related concepts: natural habitat, resources, livelihood</p> <p>Lines of inquiry:</p> <ul style="list-style-type: none"> Natural resources and economic activities Natural vs. Man made disasters Ways to manage resources
<p>10-11 G5</p>	<p>Worldviews (1)</p> <p>Central Idea: Worldviews of individuals and societies help shape people's decisions and behavior.</p> <p>Key Concepts: perspective function</p> <p>Related concepts: beliefs religion philosophy</p> <p>Lines of Inquiry:</p> <ul style="list-style-type: none"> Worldviews in the past and present How beliefs influence the way we think and behave The impact of beliefs, religions and spiritual traditions to the society 	<p>Civilization (4)</p> <p>Central Idea: Our awareness of ancient civilizations allows us to make connections to modern societies.</p> <p>Key concepts: Change, connection, causation</p> <p>Related concepts: heritage progress impact</p> <p>Lines of inquiry:</p> <ul style="list-style-type: none"> Elements that make a civilization Economic activities and advancements in the past The contributions of the past to the present 	<p>PYP Exhibition (5)</p> <p>Overarching Central Idea: <i>Understanding issues help build and express ideas for action.</i></p> <p>Key concepts: causation function responsibility</p> <p>Related concepts: issues inquiry action</p> <p>Lines of Inquiry:</p> <ul style="list-style-type: none"> <i>Understanding different issues</i> <i>Problem-solving models</i> <i>Ways of expressing action to help solve issues</i> 	<p>Earth and Space (3)</p> <p>Central Idea: Earth is a part of a complex universe which humans continue to explore.</p> <p>Key concepts: form, causation, perspective</p> <p>Related concepts: origins system discovery</p> <p>Lines of inquiry:</p> <ul style="list-style-type: none"> The relationship between Earth and the rest of celestial bodies in the universe. The theories of the origin of earth and our solar system. Space exploration and its impact on our daily life 	<p>Governance (6)</p> <p>Central Idea: The governance of societies reflects its local and global interests.</p> <p>Key concepts: function change</p> <p>Related concepts: governance power relationships</p> <p>Lines of inquiry:</p> <ul style="list-style-type: none"> Ways governance of societies were organized in the past Ways societies are organized at present Developments in the governance of societies 	<p>Environment Sustainability (2)</p> <p>Central Idea: Sustainability relies on maintaining the balance of organisms within systems.</p> <p>Key concepts: causation, connection, responsibility</p> <p>Related concepts: balance biodiversity interdependence</p> <p>Lines of inquiry:</p> <ul style="list-style-type: none"> Interdependence within ecosystems, biomes and environments Human actions that impact the balance of ecosystems The consequences of imbalance within ecosystems
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