

The International School at Mesa del Sol
Programme of Inquiry
2014 - 2015

Transdisciplinary Theme	<p style="text-align: center;">Who We Are</p> <p>An inquiry into the nature of 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.</p>	<p style="text-align: center;">Where We are in Place and Time</p> <p>An inquiry into orientation in place and time; personal histories; homes and journeys; the discoveries, explorations and migrations of humankind; of the relationships between and the interconnectedness of individuals and civilizations, from local and global perspectives.</p>	<p style="text-align: center;">How We Express Ourselves</p> <p>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 for the aesthetic.</p>	<p style="text-align: center;">How the World Works</p> <p>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.</p>	<p style="text-align: center;">How We Organize Ourselves</p> <p>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.</p>	<p style="text-align: center;">Sharing The Planet</p> <p>An inquiry into rights and responsibilities in the struggle to share finite resources with other people and with other living things; communities and of the relationships within and between them; access to equal opportunities; peace and conflict resolution.</p>
K	<p>Central Idea: We use our bodies to explore and perceive our world.</p> <p>Key Concepts: Form, Reflection, Connection</p> <p>Related Concepts: properties, relationship, initiative</p> <p>Lines of Inquiry:</p> <ol style="list-style-type: none"> 1. Parts of the body 2. Senses 3. Care for the body 	<p>Central Idea: The past influences the present.</p> <p>Key Concepts: Change, Causation, Reflection</p> <p>Related Concepts: Relationships</p> <p>Lines of Inquiry:</p> <ol style="list-style-type: none"> 1. Relationships between past and present 2. Change in basic human needs over time 3. Adaptations of 	<p>Central Idea: People celebrate in diverse way based on their beliefs and values.</p> <p>Key Concepts: Causation, Connection, Perspective</p> <p>Related Concepts: patterns, beliefs, relationships</p> <p>Lines of Inquiry:</p> <ol style="list-style-type: none"> 1. Significance of celebrations 2. Kinds of celebrations 3. Similarities and 	<p>Central Idea: The world creates natural materials that can be adapted for multiple uses.</p> <p>Key Concepts: Form, Function, Change</p> <p>Related Concepts: similarities, differences, transformation</p> <p>Lines of Inquiry:</p> <ol style="list-style-type: none"> 1. Types of materials 2. Uses for materials 3. Change in materials 	<p>Central Idea: Communities emerge and change based on decisions.</p> <p>Key Concepts: Function, Connection, Responsibility</p> <p>Related Concepts: structure, networks, initiative</p> <p>Lines of Inquiry:</p> <ol style="list-style-type: none"> 1. Types of communities 2. Wants and needs of community 3. Roles in the community 	<p>Central Idea: Living things interact and adapt to the world around them.</p> <p>Key Concepts: Change, Connection, Causation</p> <p>Related Concepts: connection, systems, relationships, adaptation, cycles, patterns, impact.</p> <p>Lines of Inquiry:</p> <ol style="list-style-type: none"> 1. Living things 2. Habitats 3. Living things' interconnectedness

		technology	differences of celebrations			
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1	<p>Central Idea: Relationships shape identity</p> <p>Key Concepts: Function, Connection, Perspective</p> <p>Related Concepts: behavior, communication, relationships, opinion</p> <p>Lines of Inquiry:</p> <ol style="list-style-type: none"> Roles within a community Relationships within a social group One's perspective of identity 	<p>Central Idea: People use a variety of resources to understand where they are in place and time.</p> <p>Key Concepts: Connection, Change, Reflection</p> <p>Related Concepts: systems, cycles, sequences,</p> <p>Lines of Inquiry:</p> <ol style="list-style-type: none"> Systems to measure time Reliability of maps and landforms Cycles that effect human understanding of place and time. 	<p>Central Idea: Communication allows people to discover and express culture.</p> <p>Key Concepts: Form, Perspective, Reflection</p> <p>Related Concepts: similarities and differences, truth, beliefs, values, interpretation</p> <p>Lines of Inquiry:</p> <ol style="list-style-type: none"> Types of stories Local folklore Tribal explanations of natural phenomena Similarities and differences among stories 	<p>Central Idea: The evolution of technology induces change.</p> <p>Key Concepts: Function, Change, Causation</p> <p>Related Concepts: pattern, transformation, role</p> <p>Lines of Inquiry:</p> <ol style="list-style-type: none"> Simple and compound machines Forces and motion <p>Ways machines have changed over time</p>	<p>Central Idea: Decisions are based on perspective</p> <p>Key Concepts: Responsibility, Causation, Perspective</p> <p>Related Concepts: citizenship, rights, opinion, consequences, rules</p> <p>Lines of Inquiry:</p> <ol style="list-style-type: none"> Different ways to determine a decision Rules and consequences Historical figures who have influenced society. 	<p>Central Idea: Scarcity and waste impact sustainability.</p> <p>Key Concepts: Responsibility, Connection</p> <p>Related Concepts: initiative, conservation, climate</p> <p>Lines of Inquiry:</p> <ol style="list-style-type: none"> Differences between needs and wants Resources in the community, state and nation. Ways needs and wants can impact behavior

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2	<p>Central Idea: There is an interdependent relationship between patterns of consumption and health.</p> <p>Key Concepts: form, function, causation</p> <p>Related Concepts: Properties, Patterns, Behavior, Consequences</p> <p>Lines of Inquiry:</p> <ol style="list-style-type: none"> 1. Forms of consumption 2. Consumptions affect on health 3. Sources and impacts of nutrients on body systems. 	<p>Central Idea: Significant contributions of people and events define history.</p> <p>Key Concepts: reflection, causation</p> <p>Related Concepts: Impact, Evidence, Responsibility</p> <p>Lines of Inquiry:</p> <ol style="list-style-type: none"> 1. Significant contributions that defined history 2. Significant events that defined history 3. Impact of significant contributions and events on history 	<p>Central Idea: Through an understanding of the concepts of sound one discovers ways to enjoy creativity.</p> <p>Key Concepts: Function, Causation, Reflection</p> <p>Related Concepts: Communication, Sequences, Interpretations</p> <p>Lines of Inquiry:</p> <ol style="list-style-type: none"> 1. How sound is produced by vibrations. 2. Ways to make different sounds (frequency, size, shape). 3. Discovering ways to organize sound to express 	<p>Central Idea: Understanding forces and changes allows people to make practical applications</p> <p>Key Concepts: function, change, connection</p> <p>Related Concepts: Systems, Cycles, Relationships</p> <p>Lines of Inquiry:</p> <ol style="list-style-type: none"> 1. Physical, Chemical, and Cyclical change 2. Factors affecting movement 3. Uses in daily life 	<p>Central Idea: Societies create government to organize community.</p> <p>Key Concepts: responsibility, perspective</p> <p>Related Concepts: Beliefs, Rights, Values</p> <p>Lines of Inquiry:</p> <ol style="list-style-type: none"> 1. Types of government 2. Government structures 3. Rights and responsibilities of stakeholders 	<p>Central Idea: People depend on the environment and its resources to satisfy basic needs.</p> <p>Key Concepts: change, connection, responsibility</p> <p>Related Concepts: Values, Relationships,</p> <p>Lines of Inquiry:</p> <ol style="list-style-type: none"> 1. Resources 2. Factors that influence settlement patterns 3. Responsibilities in resource management

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3	<p>Central Idea: People's beliefs and values are reflected through their behaviors.</p> <p>Key Concepts: Perspective, Responsibility</p> <p>Related Concepts: subjectivity, independence, rights and justice</p> <p>Lines of Inquiry:</p> <ol style="list-style-type: none"> 1. Formation of beliefs and values 2. How rights and responsibilities influence people 3. Impact of beliefs/values on rights and responsibilities 	<p>Central Idea: Over time, people, groups, and events impact a civilization.</p> <p>Key Concepts: Perspective, Causation, Connection</p> <p>Related Concepts: prejudice, relationships, impact</p> <p>Lines of Inquiry:</p> <ol style="list-style-type: none"> 1. How people influence history 2. Local events and their connection to history 3. The interactions between cultures 	<p>Central Idea: Aspects of nature inspire the arts.</p> <p>Key Concepts: Form, Reflection</p> <p>Related Concepts: patterns, interpretation</p> <p>Lines of Inquiry:</p> <ol style="list-style-type: none"> 1. Appreciation of nature through music 2. Language inspired by nature 3. Artistic interpretation of nature 	<p>Central Idea: Change is inevitable in the physical and natural world.</p> <p>Key Concepts: Change, Causation</p> <p>Related Concepts: transformation, cycles, impact</p> <p>Lines of Inquiry:</p> <ol style="list-style-type: none"> 1. Geological and atmospheric patterns 2. Changes in matter 3. How energy is transformed 	<p>Central Idea: Structures of communities' effect decision making.</p> <p>Key Concepts: Connection, Reflection, Function</p> <p>Related Concepts: citizenship, duties</p> <p>Lines of Inquiry:</p> <ol style="list-style-type: none"> 1. The support of public good 2. The impact of individual and group decisions 3. The basic structures and functions of local government 	<p>Central Idea: The properties, structures, and processes of living things are interdependent on their environment.</p> <p>Key Concepts: Change, Form, Function</p> <p>Related Concepts: adaptation, similarities and differences, behavior</p> <p>Lines of Inquiry:</p> <ol style="list-style-type: none"> 1. Living things have different forms and structures 2. Changes living things experience 3. Interactions of living things with the natural world

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4	<p>Central Idea: Communities develop systems and structures in order to meet the needs of its members.</p> <p>Key Concepts: Function, Connection, Causation</p> <p>Related Concepts: beliefs, order, power, justice</p> <p>Lines of Inquiry:</p> <ol style="list-style-type: none"> 1. Organization and structures within a community 2. Use of language, traditions, customs, and laws 3. The needs of communities around the world 	<p>Central Idea: People migrate to satisfy needs.</p> <p>Key Concepts: Perspective, Reflection, change</p> <p>Related Concepts: networks, growth, heritage</p> <p>Lines of Inquiry:</p> <ol style="list-style-type: none"> 1. Reasons for migration 2. Impact of immigration. 3. Effects of relocation on culture. 	<p>Central Idea: Structures reflect people’s creativity and culture.</p> <p>Key Concepts: Change, Perspective, Reflection</p> <p>Related Concepts: solutions, similarities, differences</p> <p>Lines of Inquiry:</p> <ol style="list-style-type: none"> 1. Materials used in architecture 2. Kinds of structures 3. Architectural design / mad made marvels 4. 	<p>Central Idea: Humans explore the complex universe in order to understand the changing nature of Earth.</p> <p>Key Concepts: Form, Connection, Reflection</p> <p>Related Concepts: properties, discovery, patterns</p> <p>Lines of Inquiry:</p> <ol style="list-style-type: none"> 1. Characteristics of planet Earth 2. The interconnectedness of celestial bodies in space <p>How and why the universe is explored</p>	<p>Central Idea: Communities develop systems and structures in order to meet the needs of its members.</p> <p>Key Concepts: Function, Connection, Causation</p> <p>Related Concepts: beliefs, order, power, justice</p> <p>Lines of Inquiry:</p> <ol style="list-style-type: none"> 1. Organization and structures within a community 2. Use of language, traditions, customs, and laws 3. The needs of communities around the world 	<p>Central Idea: The conversion, transfer, and use of energy impacts the sustainability of Earth’s resources.</p> <p>Key Concepts: Form, Change, Responsibility</p> <p>Related Concepts: transformation, stewardship, conservation</p> <p>Lines of Inquiry:</p> <ol style="list-style-type: none"> 1. Forms of energy 2. Transformation of energy 3. Renewable vs. non-renewable energy 4.

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<p align="center">5</p>	<p>Central Idea: Circumstances, choices, and perception shape our understanding of what it means to be human.</p> <p>Key Concepts: Connection, Responsibility, Change</p> <p>Related Concepts: patterns, interaction, community, influence, relationships, citizenship, transformation, sequences</p> <p>Lines of Inquiry:</p> <ol style="list-style-type: none"> 1. Geographic circumstances that influence human habitation 2. The relationship between perception and human adaptations. 3. Choices that 	<p>Central Idea: Exploration impacts humankind.</p> <p>Key Concepts: Connection, Perspective, Responsibility</p> <p>Related Concepts: discovery, migration, adaptation, community</p> <p>Lines of Inquiry:</p> <ol style="list-style-type: none"> 1. Forms of exploration 2. Impact of explorations on global community relationships 3. Discoveries through exploration 	<p>Central Idea: Communication systems reflect the beliefs and values of a culture.</p> <p>Key Concepts: Function, Perspective and Causation</p> <p>Related Concepts:</p> <p>Lines of Inquiry:</p> <ol style="list-style-type: none"> 1. Media 2. Theater and drama 3. Dance 	<p>Central Idea: Technological advances impact sustainability.</p> <p>Key Concepts: Form, Responsibility, Causation</p> <p>Related Concepts:</p> <p>Lines of Inquiry:</p> <ol style="list-style-type: none"> 1. Organism structures and functions 2. Impact of changes in the environment 3. Inherited and learned characteristics 	<p>Central Idea: Consumption patterns influence supply and demand.</p> <p>Key Concepts: Form, Function, Responsibility</p> <p>Related Concepts:</p> <p>Lines of Inquiry:</p> <ol style="list-style-type: none"> 1. Number systems 2. Data collection and analysis <p>Influence of perspective on decision making</p>	<p>Central Idea: Conflicts have various outcomes.</p> <p>Key Concepts: Causation, Perspective, Responsibility</p> <p>Related Concepts: peace, conflict, system, diversity, cooperation, beliefs, values, resources</p> <p>Lines of Inquiry:</p> <ol style="list-style-type: none"> 1. Factors that can lead to personal, local, national, and global conflicts 2. Resolution strategies. 3. Elements of peace

	influence governance changes.					
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