

# ISD IB PYP PROGRAMME OF INQUIRY

School: The International School at Dundee 2021-2022

Updated 1/10/22

	<b>Who We Are</b> <i>An inquiry of 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>	<b>Where We Are in Time and Place</b> <i>An exploration 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>	<b>How We Express Ourselves</b> <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>	<b>How the World Works</b> <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>	<b>How We Organize Ourselves</b> <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>	<b>Sharing the Planet</b> <i>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.</i>
<b>K I N D E R G A R T E N</b>		<p><b>Central idea:</b> Families are alike and different</p> <p><b>An inquiry into:</b></p> <ul style="list-style-type: none"> <li>● Family traditions</li> <li>● Family origins</li> <li>● How my family is special</li> </ul> <p><b>Key Concepts:</b> Function, connection, perspective, form</p> <p><b>Related Concepts:</b> Culture, diversity, values, traditions, relationships</p> <p><b>Subject Areas:</b> Social Studies, Language Arts, the Arts, Technology, World Language</p>	<p><b>Central idea:</b> People share stories in different ways.</p> <p><b>An inquiry into:</b></p> <ul style="list-style-type: none"> <li>● Elements of stories</li> <li>● Different ways of sharing stories</li> <li>● Why we share stories</li> </ul> <p><b>Key Concepts:</b> Form, connection, function</p> <p><b>Related Concepts:</b> Character, communication, genre</p> <p><b>Subject Areas:</b> Social Studies, Language Arts, the Arts, Technology</p>		<p><b>Central idea:</b> People learn ways to help themselves figure out new environments.</p> <p><b>An inquiry into:</b></p> <ul style="list-style-type: none"> <li>● The people in our school who can help us</li> <li>● Places in our school</li> <li>● Our responsibilities in our school</li> <li>● Ways to make and keep friends</li> </ul> <p><b>Key Concepts:</b> Form, Function, Responsibility, Reflection</p> <p><b>Related Concepts:</b> Community, roles, responsibility, Friendship, Cooperation</p> <p><b>Subject Areas:</b> Social Studies, Language Arts, the Arts, World Language, Technology</p>	<p><b>Central idea:</b> Students will make observations about the world around them using scientific tools.</p> <p><b>An inquiry into:</b></p> <ul style="list-style-type: none"> <li>● Designing tools to solve problems.</li> <li>● Using observations to collect data.</li> <li>● Observing patterns using our senses and technology helps us predict the weather</li> </ul> <p><b>Key Concepts:</b> Change, Form, Causation, Connection</p> <p><b>Related Concepts:</b> Weather, scientific tools, observations,</p> <p><b>Subject Areas:</b> Science, Math, Language Arts, the Arts, Technology</p>

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<b>G R A D E 1</b>	<p><b>Central idea:</b> The actions we choose can change our lives and the lives of others.</p> <p><b>An inquiry into:</b></p> <ul style="list-style-type: none"> <li>• Making good choices</li> <li>• How our actions can make a difference</li> <li>• The Learner Profile Attributes and Attitudes</li> </ul> <p><b>Key Concepts:</b> Perspective, Change, Responsibility, Causation</p> <p><b>Related Concepts:</b> Actions, Consequences</p> <p><b>Subject Areas:</b> Language Arts, Social Studies, Music, Physical Education</p>	<p><b>Central idea:</b> Communities reflect the needs and wants of its members.</p> <p><b>An inquiry into:</b></p> <ul style="list-style-type: none"> <li>• Communities</li> <li>• Our needs and wants</li> <li>• The past (Pilgrims)</li> </ul> <p><b>Key Concepts:</b> Causation, Connection, Perspective</p> <p><b>Related Concepts:</b> Communities, Goods and Services</p> <p><b>Subject Areas:</b> The Arts, Language Arts, Social Studies, World Language</p>	<p><b>Central idea:</b> Holidays reflect what is important to a community.</p> <p><b>An inquiry into:</b></p> <ul style="list-style-type: none"> <li>• Communities and their celebrations</li> <li>• Why we celebrate holidays</li> <li>• Historical figures</li> </ul> <p><b>Key Concepts:</b> Function, Responsibility</p> <p><b>Related Concepts:</b> Communities, Celebrations</p> <p><b>Subject Areas:</b> Social Studies, Language Arts, World Language</p>	<p><b>Central idea:</b> Forces affect how objects move.</p> <p><b>An inquiry into:</b></p> <ul style="list-style-type: none"> <li>• How forces make things move</li> <li>• What affects an object’s movement</li> <li>• Designing a fair test to solve a problem</li> </ul> <p><b>Key Concepts:</b> Function, Causation, Change</p> <p><b>Related Concepts:</b> Force and Motion, Scientific Process</p> <p><b>Subject Areas:</b> Science, Math, Language Arts</p>	<p><b>Central idea:</b> Scientists make sense of the world around them through observation.</p> <p><b>An inquiry into:</b></p> <ul style="list-style-type: none"> <li>• What a scientist is</li> <li>• The purpose of science notebooks</li> <li>• How scientists organize their thinking</li> </ul> <p><b>Key Concepts:</b> Form, Function, Perspective, Connection</p> <p><b>Related Concepts:</b> Observation, Senses, Organization, Force and Motion, Shadows, Patterns</p> <p><b>Subject Areas:</b> Math, Language Arts, Science, The Arts</p>	<p><b>Central idea:</b> Living things find what they need to survive in their habitats.</p> <p><b>An inquiry into:</b></p> <ul style="list-style-type: none"> <li>• The needs of living things</li> <li>• How living things get what they need to survive</li> <li>• What a habitat is</li> </ul> <p><b>Key Concepts:</b> Form, Causation, Responsibility</p> <p><b>Related Concepts:</b> Classification, Needs vs. Wants, Habitats</p> <p><b>Subject Area:</b> Science, Language Arts, World Language</p>

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<b>G R A D E 2</b>	<p><b>Central idea:</b> Changes to communities affect our way of life.</p> <p><b>An inquiry into:</b></p> <ul style="list-style-type: none"> <li>• Similarities and differences from life in the past</li> <li>• Causes of change in our community</li> <li>• Historical sources can be used to study the past</li> </ul> <p><b>Key Concepts:</b> Form, Function, Change, Connection, Causation, Reflection, Responsibility</p> <p><b>Related Concepts:</b> History, Research</p> <p><b>Subject Areas:</b> Language Arts, Social Studies</p>	<p><b>Central idea:</b> People contribute to their communities in different ways.</p> <p><b>An inquiry into:</b></p> <ul style="list-style-type: none"> <li>• How people make a difference in our community?</li> <li>• How does the needs and wants of a community influence our goods and services?</li> <li>• How do people with various roles in a community depend on each other?.</li> </ul> <p><b>Key Concepts:</b> Perspective, Reflection, Change</p> <p><b>Related Concepts:</b> Choices, Role Models, Achievement</p> <p><b>Subject Areas:</b> Social Studies, Technology, Language Arts</p>	<p><b>Central idea:</b> Light and sound provide a tool for human expression.</p> <p><b>An inquiry into:</b></p> <ul style="list-style-type: none"> <li>• Vibrations create sound and sound creates vibrations</li> <li>• Objects are illuminated when in the path of light</li> <li>• Light and sound interact with materials in different ways</li> <li>• Light and sound travel in waves over long distances</li> </ul> <p><b>Key Concepts:</b> Connection, Change, Causation, Function, Form, Reflection, Responsibility</p> <p><b>Related Concepts:</b> Needs and Wants/Economics, innovation, Engineering</p> <p><b>Subject Areas:</b> Language Arts, the Arts, Social Studies</p>	<p><b>Central Idea:</b> Human choices and natural occurrences impact Earth’s land and water.</p> <p><b>An inquiry into:</b></p> <ul style="list-style-type: none"> <li>• What is weathering and erosion</li> <li>• Events can cause the Earth to change quickly or slowly</li> <li>• Humans can make choices to reduce their impact on land and water</li> <li>• Maps show where land and water are located</li> </ul> <p><b>Key Concepts:</b> Form, Change, Causation</p> <p><b>Related Concepts:</b> Observation</p> <p><b>Subject Areas:</b> Science, Language Arts, Math</p>	<p><b>Central Idea:</b> Citizens and leaders can help organize their communities</p> <p><b>An inquiry into:</b></p> <ul style="list-style-type: none"> <li>• Why we have Essential Agreements</li> <li>• Why we have laws</li> <li>• Characteristics of leaders</li> </ul> <p><b>Key Concepts:</b> Causation, Connection, Responsibility</p> <p><b>Related Concepts:</b> Leadership, Influence, Order vs. Chaos</p> <p><b>Subject Areas:</b> Social Studies, Language Arts, Technology, Music</p>	<p><b>Central Idea:</b> Living things are affected by their environment as they grow and change.</p> <p><b>An Inquiry Into:</b></p> <ul style="list-style-type: none"> <li>• The life cycle of plants</li> <li>• How plants and animals (pollinators) are interconnected.</li> <li>• How plants survive in diverse habitats</li> </ul> <p><b>Key Concepts:</b> Function, Causation, Connection, Change, Responsibility</p> <p><b>Related Concepts:</b> Basic needs, cultivation</p> <p><b>Subject Areas:</b> Science, Technology, Language Arts, Math</p>

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<b>GRADE 3</b>	<p><b>Central idea:</b> Government and citizens work together to make communities stronger.</p> <p><b>An inquiry into:</b></p> <ul style="list-style-type: none"> <li>The structure of government and how its roles supports the community</li> <li>Responsibility of citizens and how they support their community</li> <li>The availability of resources and their influence on us</li> </ul> <p><b>Key Concepts:</b> Causation, Perspective,</p> <p><b>Related Concepts:</b> Government, Structures, Citizenship, Personal Responsibility</p> <p><b>Subject Areas:</b> Social Studies, Language Arts, Technology</p>	<p><b>Central idea:</b> People and places undergo change over time</p> <p><b>An inquiry into:</b></p> <ul style="list-style-type: none"> <li>The social, economic and political systems of a society</li> <li>Comparing the past and present of Greenwich</li> <li>Indigenous people and colonists affect the history and culture of Greenwich and CT</li> </ul> <p><b>Key Concepts:</b> Causation, Change, Connection</p> <p><b>Related Concepts:</b> Artifacts, Social, Economic, Political Structures, Migrations</p> <p><b>Subject Areas:</b> Social Studies, Technology, Science, Language Arts</p>	<p><b>Central idea:</b> Feelings, ideas and beliefs can be expressed through movement.</p> <p><b>An inquiry into:</b></p> <ul style="list-style-type: none"> <li>The potential of the body to move</li> <li>Translating ideas and emotions into movement</li> <li>Combining dance movements to tell a story</li> </ul> <p><b>Key Concepts:</b> Function, Connection, Perspective</p> <p><b>Related Concepts:</b> Movement, Creativity, Expression</p> <p><b>Subject Areas:</b> The Arts, Language Arts, SEL</p>	<p><b>Central idea:</b> The Earth’s landscape changes over time through the shifting patterns of natural forces.</p> <p><b>An inquiry into:</b></p> <ul style="list-style-type: none"> <li>Patterns of rock formations and fossils</li> <li>Observations of weathering and erosion</li> <li>Describe patterns of earth’s features using maps</li> </ul> <p><b>Key Concepts:</b> Function, Change, Causation</p> <p><b>Related Concepts:</b> Cycle, Properties</p> <p><b>Subject Areas:</b> Language Arts, Science, Technology</p>	<p><b>Central idea:</b> Materials can be identified and organized by their physical and chemical properties and their changes.</p> <p><b>An inquiry into:</b></p> <ul style="list-style-type: none"> <li>Interactions between different types of matter</li> <li>Analyze and interpret data</li> <li>Scientific observation and testing</li> </ul> <p><b>Key Concepts:</b> Change, Form, Reflection</p> <p><b>Related Concepts:</b> Matter, Properties</p> <p><b>Subject Area:</b> Science Language Arts, Science, Math, Technology</p>	<p><b>Central idea:</b> Organisms evolve over time in response to changes in the environment.</p> <p><b>An inquiry into:</b></p> <ul style="list-style-type: none"> <li>Animals must adapt and respond to their environment in order to survive, including genetics and behavior</li> <li>Change happens in the environment and has positive and negative effects</li> <li>Plants and animals have unique life cycles</li> </ul> <p><b>Key Concepts:</b> Change, Causation, Responsibility</p> <p><b>Related Concepts:</b> Adaptations</p> <p><b>Subject Areas:</b> Science Science, Language Arts, the Arts, Technology</p>

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<b>GRADE 4</b>	<p><b>Central idea:</b> Taking risks is part of being human</p> <p><b>An inquiry into:</b></p> <ul style="list-style-type: none"> <li>Reasons people take risks</li> <li>Choices that people make</li> <li>Outcomes of human decision making</li> </ul> <p><b>Key Concepts:</b> Change, Responsibility, Reflection</p> <p><b>Related Concepts:</b> Courage, Changemakers</p> <p><b>Subject Areas:</b> Social Studies, Language Arts, the Arts (music, theater)</p>	<p><b>Central idea:</b> Geographic, cultural and economic factors influence human migration and settlement.</p> <p><b>An inquiry into:</b></p> <ul style="list-style-type: none"> <li>Impact of climate and weather on life in a region</li> <li>Geographical features and the availability of resources affect the way we live</li> <li>Learning from various types of maps</li> </ul> <p><b>Key Concepts:</b> Form, Change, Connection</p> <p><b>Related Concepts:</b> tourism, exploration, geography</p> <p><b>Subject Areas:</b> Social Studies, Science, Technology, Spanish</p>	<p><b>Central idea:</b> Humans can express themselves through the visual arts.</p> <p><b>An inquiry into:</b></p> <ul style="list-style-type: none"> <li>How artists are influenced by personal experiences</li> <li>How artists are inspired by other artists and art materials</li> <li>How artists are inspired by the world around them</li> </ul> <p><b>Key Concepts:</b> Causation, Change, Reflection &amp; Perspective</p> <p><b>Related Concepts:</b> Lines &amp; color, Self-expression</p> <p><b>Subject Areas:</b> The Arts, Language Arts, Technology</p>	<p><b>Central Idea:</b> Scientific principles come from observing nature and help us understand the world.</p> <p><b>An inquiry into:</b></p> <ul style="list-style-type: none"> <li>Force and Motion</li> <li>The Scientific Method and Engineering Process</li> <li>Connecting scientific principles to our world</li> </ul> <p><b>Key Concepts:</b> Causation, function, change</p> <p><b>Related Concepts:</b> Collaboration, Communication, Innovation</p> <p><b>Subject Areas:</b> Science, Language Arts, the Arts, Math, Engineering</p>	<p><b>Central idea:</b> Electrical and magnetic energy can be transformed and controlled.</p> <p><b>An inquiry into:</b></p> <ul style="list-style-type: none"> <li>How magnets are used in the world</li> <li>Types of electrical circuits used</li> <li>Electrical infrastructure</li> <li>Human control and demands for electricity</li> </ul> <p><b>Key Concepts:</b> Function, Causation, Connection</p> <p><b>Related Concepts:</b> Transportation, Innovation, Energy</p> <p><b>Subject Areas:</b> Science, Math, Language Arts, Spanish</p>	<p><b>Central idea:</b> Changes in ecosystems impact relationships of living things.</p> <p><b>An inquiry into:</b></p> <ul style="list-style-type: none"> <li>How the world's resources change</li> <li>Human responsibility</li> <li>Long Island Sound (Case Study)</li> </ul> <p><b>Key Concepts:</b> Change, Causation, Responsibility</p> <p><b>Related Concepts:</b> Pollution, Health</p> <p><b>Subject Areas:</b> Science, Social Studies, Language Arts</p>



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<b>GRADE 5</b>	<p><b>Central idea:</b> Our choices and attitudes affect our lives.</p> <p><b>An inquiry into:</b></p> <ul style="list-style-type: none"> <li>different types of choices (physical, mental/emotional)</li> <li>what influences our choices and attitudes</li> <li>the effects of choices and attitudes</li> </ul> <p><b>Key Concepts:</b> Form, Function, Causation, Change, Connection and Reflection</p> <p><b>Related Concepts:</b> Acceptance, tolerance, open-mindedness, maturity, independence, responsibility</p> <p><b>Subject Area:</b> Social Studies, Science, Language Arts, Spanish</p>	<p><b>Central idea:</b>The relationship between individuals and civilizations often includes struggle and can change the course of personal and global history.</p> <p><b>An inquiry into:</b></p> <ul style="list-style-type: none"> <li>human quest for freedom</li> <li>attitudes, beliefs, and actions of various groups within and between communities (indigenous people, colonists, monarchy)</li> </ul> <p><b>Key Concepts:</b> Causation, perspective, and change</p> <p><b>Related Concepts:</b> Conflict, Hardship, Resolution, Migration</p> <p><b>Subject Area:</b> Social Studies, Language Arts</p>	<p><b>Central Idea:</b> The media influences our life choices in both positive and negative ways.</p> <p><b>An inquiry into:</b></p> <ul style="list-style-type: none"> <li>advertising</li> <li>the impact of media</li> <li>our responsibility as a consumer</li> </ul> <p><b>Key Concepts:</b> Responsibility, form, function</p> <p><b>Related Concepts:</b> decision-making, honesty, analyzing information</p> <p><b>Subject Area:</b> Social Studies, Science, the Arts, Language Arts, Technology</p>	<p><b>Central idea:</b> Movements in and on the Earth keep our planet in constant motion which scientists measure as waves.</p> <p><b>An inquiry into:</b></p> <ul style="list-style-type: none"> <li>light waves</li> <li>sound waves</li> <li>seismic waves</li> <li>ocean waves</li> </ul> <p><b>Key Concepts:</b> Function, Causation, Change, Connection</p> <p><b>Related Concepts:</b> Innovation, Engineering, Collaboration</p> <p><b>Subject Area:</b> Science, Language Arts, the Arts</p>	<p><b>Central Idea:</b> Our passions lead to self-expression and action.</p> <p><b>An inquiry into:</b></p> <ul style="list-style-type: none"> <li>how world issues impact us</li> <li>how we respond to world issues</li> <li>how we express our feelings about issues that are meaningful to us</li> </ul> <p><b>Key Concepts:</b> Causation, Change, Connection, Perspective</p> <p><b>Related Concepts:</b> Persecution, Peaceful Protest</p> <p><b>Subject Area:</b> Social Studies, Language Arts, the Arts</p>	<p><b>Central Idea:</b> The health of the planet is influenced by natural factors and human action.</p> <p><b>An inquiry into:</b></p> <ul style="list-style-type: none"> <li>what regulates weather and climate</li> <li>how the use of natural resources impacts weather and climate</li> <li>how natural resources can be used responsibly</li> </ul> <p><b>Key Concepts:</b> Change, Causation, Form, Function</p> <p><b>Related Concepts:</b> Awareness, Preparedness</p> <p><b>Subject Area:</b> Math, Science, Language Arts, Spanish</p>

