



Programme of Inquiry

The International School Penang (Uplands)



2016-2017

Transdisciplinary Theme	Year	Central Idea	Key Concepts	Lines of Inquiry	Subject Focus	Related Concepts	Learner Profile	Attitudes	Transdisciplinary Skills
Who we are	R	Family relationships contribute to shaping our identity.	Form Responsibility Reflection	<ul style="list-style-type: none"> Diversity of families (form) Responsibilities within a family (responsibility) How families influence who we become (reflection) 	PSPE Social Studies Drama Languages	Values Roles Belonging Similarities & differences	Caring Balanced	Cooperation Commitment	Social skills: accepting responsibility, respecting others Communication skills: speaking Thinking skills: evaluation Self-management skills: healthy lifestyle, codes of behavior, informed choices Research skills: planning, recording data
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; right and responsibilities; what it means to be human.	1	People's relationships with each other can have an impact on wellbeing.	Function Connection Responsibility	<ul style="list-style-type: none"> How we develop relationships (function) How relationships affect us (connection) Roles and behaviours within relationships (responsibility) 	Science PSPE Social Studies	Ourselves Cooperation Friendship Balance	Caring Principled	Cooperation Tolerance Respect	Social skills: Cooperating, resolving conflict Communication skills: non-verbal communication Thinking skills: analysis, evaluation Self-management skills: safety, codes of behavior. Healthy lifestyle Research skills: interpreting data, observing
	2	The choices people make affect their health and well being.	Causation Responsibility Reflection	<ul style="list-style-type: none"> What it means to have a balanced lifestyle (causation) How the choices we make affect our health (responsibility) How we can find different information to help us make choices (reflection) 	Science PSPE Languages	Teeth & Eating Balance Health & Growth Choice Influence Balance	Balanced Reflective	Commitment Independence	Social skills: accepting responsibility, resolving conflict Communication skills: presenting Thinking skills: comprehension Self-management skills: healthy lifestyle, gross motor skills Research skills: interpreting data

3	Choices of role models reflect the beliefs and values of individuals and societies.	Causation Perspective Reflection	<ul style="list-style-type: none"> What determines our beliefs and values (causation) How and why role models are chosen (perspective) Influence of role models on our choices and actions (reflection) 	Social Studies PSPE Dance and Drama	Identity Peer-pressure Opinion	Open-minded Reflective	Integrity Respect	Social skills: adopting a variety of group roles Communication skills: listening Thinking skills: evaluation Self-management skills: time-management Research skills: recording data
4	The effective interactions between human body systems contribute to health and survival.	Function Connection Change	<ul style="list-style-type: none"> Body systems and how they work (function) Interdependence of body systems (connection) Changes occurring in the body (change) Impact of lifestyle choices on the body (connection) 	Science PSPE Languages	Moving & Growing Systems Interdependence Health & growth	Knowledgeable Inquirer	Tolerance Cooperation	Social skills: cooperating Communication skills: listening Thinking skills: metacognition Self-management skills: organization Research skills: presenting research findings
5	People's cultural background has an impact on their cultural beliefs, values and actions.	Form Connection Perspective	<ul style="list-style-type: none"> What constitutes culture (form) How people use different experiences to inform their perspectives (connection) The connections between cultural beliefs and values, and the actions taken in response to them (perspective) How are cultural art and artefacts perceived (perspective) 	Social Studies PSPE English	Interpretation Subjectivity Identity	Open-minded Principled	Tolerance Respect	Social skills: respecting others Communication skills: speaking, presenting Thinking skills: metacognition Self-management skills: gross motor skills, organization Research skills: interpreting data, formulating questions

	6	A person's behaviour and how they choose to present themselves project aspects of their identity.	Change Perspective Reflection	<ul style="list-style-type: none"> How appearance and behaviour influence our perception of others (change) The influence of cultural and social norms on how we choose to present ourselves (perspective) Fashion as a form of expression (reflection) 	Social Studies PSPE Music Dance and Drama	Identity Status Image Impression	Open-minded Reflective	Creativity Confidence	Social skills: respecting others Communication skills: non-verbal communication, viewing Thinking skills: metacognition Self-management skills: codes of behavior, informed choices Research skills: observing
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Where we are in place and time	R	Learning about previous generations helps us understand the present.	Causation Change Connection	<ul style="list-style-type: none"> Ways of finding out about the past (causation) How artefacts have changed over time (connection) Why some artefacts and practices have changed over time (change) 	Social Studies PSPE Dance and Drama	Time Continuity heritage	Reflective Thinkers	Confidence Respect	Social skills: respecting others, accepting responsibility Communication skills: writing, non-verbal communication Thinking skills: analysis, dialectical thought Self-management skills: spatial awareness, organization Research skills: collecting data, organizing data
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.	1	Journeys create change and can lead to new opportunities.	Causation Change Form	<ul style="list-style-type: none"> Types of journeys people make (form) Choices and decisions involved in making a journey (causation) Changes experienced because of a journey (change) 	Science Social Studies Maths	Sinking & Floating Choice Consequence Properties	Risk-taker Reflective	Enthusiasm Confidence	Social skills: group decision-making Communication skills: speaking Thinking skills: application, synthesis Self-management skills: spatial awareness, organization Research skills: organizing data, planning
	2	Homes reflect personal identity and local culture.	Form Connection Perspective	<ul style="list-style-type: none"> What constitutes a home (form) How homes reflect family values (connection) 	Social Studies English Maths	Culture Needs Ownership Locality	Inquirers Open-minded	Empathy Tolerance	Social skills: respecting others Communication skills: writing, listening Thinking skills: application Self-management skills: fine motor skills, time management

			<ul style="list-style-type: none"> How homes reflect local culture (connection) Factors that determine where people live (perspective) 					Research skills: formulating questions, presenting research findings
3	Exploration leads to discovery and develops new understandings.	Form Perspective Reflection	<ul style="list-style-type: none"> Reasons for exploration (historical and personal) (form) Feelings and attitudes associated with exploration (perspective) What we learn through exploration (reflective) □ Methods of navigation (form) 	Science Social Studies Maths Drama	Light & Shadows Pattern Review Evidence	Inquirer Reflective Communicator	Creativity Independence Commitment	Social skills: group decision making Communication skills: speaking Thinking skills: comprehension Self-management skills: gross motor skills Research skills: formulating questions, planning
4	Evidence of past civilizations can be used to make connections to present-day societies.	Form Function Connection	<ul style="list-style-type: none"> Characteristics of civilizations and societies (form) Connections between past and present (connection) Implications for the future (connection) Processes involved in collecting, analyzing and validating evidence (function) 	Science Social Studies Maths	Friction Simple Machines Continuity Progress Validity	Inquirer Knowledgeable	Commitment Curiosity	Social skills: adopting a variety of group roles Communication skills: reading Thinking skills: acquisition of knowledge Self-management skills: time-management Research skills: collecting data, organizing data
5	Technology impacts on the world of work and leisure.	Change Connection Responsibility	<ul style="list-style-type: none"> Using technology and its responsibilities (responsibility) The evolution of inventions through history and their impact on work and leisure (change) 	Science Social Studies English	Circuits & Conductors Communication Systems Ethics	Thinkers Risk-taker	Curiosity Creativity Commitment	Social skills: group decision making, adopting a variety of group roles Communication skills: viewing, presenting Thinking skills: application Self-management skills: healthy lifestyle, time-

				<ul style="list-style-type: none"> How technology supports/impacts sustainability (connection) 					<p>management</p> <p>Research skills: collecting data, presenting research findings</p>
	6	Human migration is a response to challenges, risks and opportunities.	Causation Change Perspective	<ul style="list-style-type: none"> The reasons people migrate (causation) Causes and effects of migration on geography, communities, cultures and individuals (change) Relationship between migration and sustainability (change) Human migration throughout history (perspective) 	Science Social Studies Maths	Adaptation Population Settlement Diversity Refugees	Risk-taker Open-minded	Cooperation Tolerance Empathy	<p>Social skills: accepting responsibility</p> <p>Communication skills: writing</p> <p>Thinking skills: analysis, application</p> <p>Self-management skills: time management</p> <p>Research skills: interpreting data</p>
Transdisciplinary Theme	Year	Central Idea	Key Concepts	Lines of Inquiry	Subject Focus	Related Concepts	Learner Profile	Attitudes	Transdisciplinary Skills
How we express ourselves	R	We express our thoughts and ideas in many different ways.	From Causation Perspective	<ul style="list-style-type: none"> Forms of expression (form) The ways I express myself (perspective) Why I express myself in this way (causation) 	English Drama Music	Consequences Properties Interpreting	Communicator Open-minded Risk-taker	Creative Appreciation	<p>Social skills: resolving conflict, group decision making</p> <p>Communication skills: viewing, presenting</p> <p>Thinking skills: synthesis, application, metacognition</p> <p>Self-management skills: spatial awareness, fine motor skills, gross motor skills</p> <p>Research skills: presenting research findings</p>
	1	Celebrations and traditions are expressions of shared beliefs and values.	Form Connection Perspective	<ul style="list-style-type: none"> Why people celebrate (form) How people celebrate (function) Features of traditions and celebrations (form)) 	Social Studies Music PSPE Dance and Drama	Beliefs Culture Values belonging	Open-Minded Balanced	Empathy Respect Creativity	<p>Social skills: respecting others</p> <p>Communication skills: viewing</p> <p>Thinking skills: comprehension</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 of the aesthetic.				<ul style="list-style-type: none"> • Symbolic representations of celebrations and traditions (form) • The meaning people assign to celebrations and traditions (perspective) 					Self-management skills: gross motor skills Research skills: observing
	2	Imagination is a powerful to help us think, create and express ourselves.	Function Connection Perspective	<ul style="list-style-type: none"> • How we demonstrate and enjoy our imagination (function) • How our imagination helps us to consider other perspectives (connection) • How imagination helps us solve problems and changes the lives of people (perspective) 	Science English Music Drama	Forces & Movement Communication Empathy Invention	Communicator Risk-taker	Cooperation Confidence	Social skills: cooperating Communication skills: viewing, listening Thinking skills: analysis, synthesis Self-management skills: fine motor skills, codes of behavior Research skills: presenting research findings
	3	A variety of signs, symbols and sounds facilitate local and global communication.	Form Connection Responsibility	<ul style="list-style-type: none"> • Features of signs and symbols (form) • Reasons for the development of communication systems (connection) • Specialized systems of communication (responsibility) • Types of auditory signs (form) 	Science Social Studies Music	Sound & Hearing Culture Media Pattern	Communicator Risk-taker Thinker	Confidence Tolerance	Social skills: accepting responsibility Communication skills: viewing, non-verbal communication Thinking skills: synthesis Self-management skills: fine motor skills Research skills: presenting research findings
	4	Through the arts people use different forms of expression to convey their uniqueness as human beings.	Function Perspective Reflection	<ul style="list-style-type: none"> • The diverse ways in which people express themselves (function) • How everyone can express their uniqueness through the arts (perspective) • The role of art in culture and society (reflection) 	Music PE/Dance Social Studies	Perception Self-expression identity	Open-minded Communicator	Appreciation Confidence Respect	Social skills: respecting others Communication skills: presenting, non-verbal communication Thinking skills: synthesis Self-management skills: spatial awareness, fine motor skills, gross motor skills Research skills: formulating questions

	5	Our need to share our feelings and ideas drives us to develop effective ways to communicate.	Form Perspective Reflection	<ul style="list-style-type: none"> Our need to share our feelings and ideas (reflection) Different communication systems (form) How people communicate in different or difficult situations (perspective) 	Social Studies Music PSPE Dance and Drama	Media Propaganda Advertising	Communicator Reflective	Creativity Confidence	Social skills: cooperating Communication skills: presenting, writing Thinking skills: synthesis Self-management skills: fine motor skills, spatial awareness Research skills: observing
	6	Systems that define beliefs and values offer explanations about the world around us and what it means to be human.	Form Perspective Reflection	<ul style="list-style-type: none"> Similarities and differences between belief systems - secular and faith-based (form) How beliefs and values contribute to the formation and actions of communities (perspective) The impact of spiritual traditions on society (reflection) 	PSPE Social Studies Music PE/Dance	Identity Status Image Impression	Open-minded Reflective	Creativity Confidence	Social skills: cooperation Communication skills: listening Thinking skills: acquisition of knowledge Self-management skills: healthy lifestyle, time management Research skills: collecting data, recording data
Transdisciplinary Theme	Year	Central Idea	Key Concepts	Lines of Inquiry	Subject Focus	Related Concepts	Learner Profile	Attitudes	Transdisciplinary Skills
How the world works	R	All living things go through a process of change.	Causation Change Connection	<ul style="list-style-type: none"> Patterns of growth (causation) How living things change over their lifetime (change) Factors that can influence life cycles (connection) 	Science English PE/Dance	Life-cycles Cycles Transformation Similarities & differences	Knowledgeable Inquirers	Curiosity Enthusiasm	Social skills: adopting a variety of group roles Communication skills: reading, listening Thinking skills: comprehension, acquisition of knowledge Self-management skills: time management, safety Research skills: formulating questions, observing, interpreting data
	1	The Earth's natural cycles influence the activity of living things.	Causation Change Connection	<ul style="list-style-type: none"> Natural cycles (eg night and day, weather patterns, seasons) (causation) 	Science PSPE English	Light & Dark Cycles Interaction Pattern safety	Knowledgeable Inquirer	Curiosity Appreciation	Communication skills: presenting, reading Thinking skills: acquisition of knowledge

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				<ul style="list-style-type: none"> The actions people take in response to Earth's natural cycles (change) Patterns of behaviour in living things related to Earth's natural cycles (connection) Health and safety related to Earth's natural cycles (connection) 					Research skills: formulating questions, presenting research findings
	2	Electricity has an impact on the quality of our lives.	Perspective Function Reflection	<ul style="list-style-type: none"> Why we need electricity (perspective) Sources of electricity (function) How electricity works (function) How electricity has an impact on our lives (reflection) 	Science Social studies English	Electricity Properties Need Responsibility	Knowledgeable Thinker	Curiosity Appreciation	Social skills: group decision making Communication skills: non-verbal communication Thinking skills: acquisition of knowledge Self-management skills: safety, time management Research skills: formulating questions, recording data
	3	Changes in the Earth and its atmosphere have impacts on the way people live their lives.	Causation Change Connection	<ul style="list-style-type: none"> How the different components of the Earth are interrelated (causation) Why the Earth has changed and is continuing to change (change) Human response to the Earth's changes (connection) Changes in the Earth's atmosphere (change) 	Science Social Studies English	Rocks & Soils Weather Water Adaptation	Knowledgeable Thinker	Curiosity Enthusiasm	Social skills: respecting others Communication skills: reading Thinking skills: dialectical thought, acquisition of knowledge Self-management skills: safety, codes of behavior Research skills: interpreting data
	4	Materials can undergo changes that may provide	Function Change	<ul style="list-style-type: none"> Reversible and irreversible changes in materials (change) How societies choose materials suitable to 	Science English Social Studies	Materials Magnets & Springs	Risk-taker Principled Thinker	Independence Creativity	Social skills: accepting responsibility Communication skills: writing Thinking skills: comprehension, application

	challenges and benefits for society and the environment .	Responsibility	<p>their needs (function)</p> <ul style="list-style-type: none"> The impact of retrieval, production and the use of materials on the environment (responsibility) Ethics in processing materials and their byproducts (responsibility) 		Keeping warm Transformation Industrialization ethics			Self-management skills: informed choices Research skills: observing, planning
5	Energy may be converted, transformed and used to support human progress.	Form Causation Responsibility	<ul style="list-style-type: none"> Different forms of energy sources - renewable and non-renewable (form) The storage and transformation of energy (causation) Energy conservation (causation) Sustainable energy practices (responsibility) 	Science Social Studies Maths	Earth, Sun & Moon Changing States Conservation Transformation Global Warming	Knowledgeable Inquirer	Appreciation Enthusiasm	<p>Social skills: accepting responsibility</p> <p>Communication skills: reading, writing</p> <p>Thinking skills: acquisition of knowledge</p> <p>Self-management skills: safety</p> <p>Research skills: formulating questions, planning</p>
6	Understanding of scientific knowledge is constantly evolving and has an impact on people's lives.	Change Connection Responsibility	<ul style="list-style-type: none"> What leads to advances in scientific knowledge and understanding (change) The role of technology in scientific understanding (connection) The effects of scientific advances on people and the environment (responsibility) 	Science Social Studies Design Tech	Forces Dissolving Transformation & Reactions Ingenuity Progress Ethics Sustainability	Inquirer Thinker	Enthusiasm Commitment Curiosity	<p>Social skills: group decision making</p> <p>Communication skills: reading</p> <p>Thinking skills: comprehension</p> <p>Self-management skills: spatial awareness, time management</p> <p>Research skills: organizing data, presenting research findings</p>

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How we organize ourselves	R								
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.	1	People play different roles in the communities in which they belong.	Form Function Reflection	<ul style="list-style-type: none"> Various communities we belong to (form) Roles of people who are part of our community (function) Why communities are organized (reflection) How do people in communities affect our lives (reflection) 	Science Social Studies English Drama	Pushes & Pulls Community Rules Interaction	Inquirer Communicator	Integrity Independence	Social skills: adopting a variety of group roles Communication skills: listening Thinking skills: comprehension, meta-cognition Self-management skills: fine motor skills Research skills: collecting data
	2	Public spaces provide people with opportunities to make connections and establish a sense of community.	Function Change Responsibility	<ul style="list-style-type: none"> Purpose of virtual and physical public places (function) Characteristics of different public places (change) How public spaces have evolved (change) How people use public spaces (responsibility) 	Social Studies English Maths	Community Environment Participation Access	Communicator Principled	Enthusiasm Respect	Social skills: adopting a variety of group roles Communication skills: presenting Thinking skills: meta-cognition Self-management skills: spatial awareness, organization Research skills: observing, collecting data
	3	People create organizations to solve problems and support human projects and businesses.	Function Connection Responsibility	<ul style="list-style-type: none"> Purpose of organizations (function) Why people join organizations (connection) What makes an organization successful (responsibility) 	Science Social Studies Maths	Work Collaboration Entrepreneurship Service	Balanced Reflective	Cooperation Creativity Empathy	Social skills: cooperation, resolving conflict Communication skills: presenting Thinking skills: analysis Self-management skills: healthy lifestyle Research skills: collecting data

4	Natural and man-made events cause various human responses.	Causation Reflection Responsibility	<ul style="list-style-type: none"> Human responses to adversity (causation) Natural and human made disasters (causation) Safety systems (reflection) World response systems (responsibility) 	Science Social studies Drama	Solids & Liquids Responsibility Consequences Impact Citizenship	Thinker Caring	Cooperation Empathy Integrity	Social skills: group decision making Communication skills: viewing Thinking skills: evaluation, analysis Self-management skills: safety, codes of behavior Research skills: interpreting data
5	Economic activity relies on systems of production, exchange and consumption of goods and services.	Function Connection Responsibility	<ul style="list-style-type: none"> The role of supply and demand (function) The distribution of goods and services (connection) Our responsibility as consumers (responsibility) How images, text and music are used to influence behavior or target audiences (function) 	Science Social Studies Languages	Changing Sound Interdependence Media/Advertising Fair-trade Ethics	Balanced Principled	Cooperation Integrity	Social skills: cooperating Communication skills: reading, non-verbal communication Thinking skills: analysis, comprehension Self-management skills: codes of behavior Research skills: recording data
6	Governing systems influence the lives of citizens.	Form Function Perspective	<ul style="list-style-type: none"> Characteristics of different types of governing systems (form) How governing systems function (function) How decision-making practices reflect human rights and responsibilities (perspective) Impact of government on citizens (perspective) 	Social Studies Language Drama	Equality Governance Law Politics Citizenship	Principled Communicator	Integrity Independence	Social skills: adopting a variety of group roles, resolving conflict Communication skills: viewing, speaking Thinking skills: dialectical thought Self-management skills: organization, safety Research skills: formulating questions

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Sharing the planet	R								
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.	1	Plants sustain life on Earth and play a role in our lives.	Function Causation Responsibility	<ul style="list-style-type: none"> How plants sustain life (function) How we use plants to create things (function) Why we need to take care of plants (causation) How we conserve plants (responsibility) 	Science PSPE Languages	Variation How Plants Grow Growth Interdependence Appreciation	Caring Thinker	Commitment Appreciation	Social skills: accepting responsibility Communication skills: listening, writing Thinking skills: application, dialectical thought Self-management skills: informed choice, time management Research skills: recording data
	2	People can make choices to support the sustainability of the Earth.	Perspective Responsibility Reflection	<ul style="list-style-type: none"> Earth's finite and infinite resources (perspective) The impact of people's choices on the environment (responsibility) The balance between meeting human needs and the use of limited resources (reflection) 	Science Social Studies PSPE	Changing materials Plants & Animals (in local environments) Lifestyle Resources Waste	Caring Reflective	Creativity Integrity	Social skills: accepting responsibility Communication skills: reading, speaking Thinking skills: evaluation, dialectical thought Self-management skills: organizing data, informed choices Research skills: planning
	3	When interacting with natural habitats, humans make choices that have an impact on other living things.	Causation Change Responsibility	<ul style="list-style-type: none"> Balance between rights and responsibilities (responsibility) Human impact on natural habitats (causation) How living things respond to changing environmental conditions (change) 	Science Social Studies PSPE Languages	Plant Growth Habitats Interdependence Behavioral adaptation Physical adaptation	Caring Principled	Appreciation Integrity	Social skills: accepting responsibility Communication skills: writing Thinking skills: application, meta-cognition Self-management skills: spatial awareness, informed choices Research skills: observing, organizing data

4	Children worldwide face a variety of challenges, risks and opportunities.	Form Perspective Reflection	<ul style="list-style-type: none"> Challenges, risks and opportunities that children encounter - local and global (form) How children respond to challenges, risks and opportunities (perspective) Ways in which individuals and organizations work to protect children from risks (reflection) Education around the world (form) 	Science Social Studies PSPE	Keeping Healthy Equality Rights Resilience	Balanced Reflective	Commitment Enthusiasm	<p>Social skills: resolving conflict</p> <p>Communication skills: speaking</p> <p>Thinking skills: dialectical thought</p> <p>Self-management skills: healthy lifestyle, gross motor skills</p> <p>Research skills: recording data, organizing data</p>
5	Reaching a resolution during periods or moments of conflict is influenced by the actions and reactions of all involved.	Causation Perspective Responsibility	<ul style="list-style-type: none"> ☐ Cause of conflict – local and global (causation) ☐ Human rights and equity (perspective) Strategies used to resolve conflict (perspective) Consequences of resolution (responsibility) 	Social Studies Language Science	Peace Reconciliation Exploitation Grief Global warming	Reflective Caring	Empathy Tolerance Independence	<p>Social skills: resolving conflict</p> <p>Communication skills: listening</p> <p>Thinking skills: dialectical thought, evaluation</p> <p>Self-management skills: informed choices</p> <p>Research skills: organizing data</p>
6	Biodiversity relies on maintaining the interdependent balance of organisms within systems.	Causation Connection Responsibility	<ul style="list-style-type: none"> ☐ Ways in which ecosystems, biomes and environments are interdependent (causation) ☐ How human interaction with the environment can affect the balance of systems (connection) The consequences of imbalance within ecosystems (responsibility) 	Science Social Studies Languages	Micro-organisms Balance Biodiversity Interdependence	Principled Caring	Cooperation Appreciation	<p>Social skills: cooperation</p> <p>Communication skills: presenting</p> <p>Thinking skills: synthesis, evaluation</p> <p>Self-management skills: fine motor skills, gross motor skills</p> <p>Research skills: planning</p>