



International School of Nanshan Shenzhen
 Homeroom: Unit of Inquiry Summary 2018-2019
 Grade 4



Grade Level	Dates: Aug. 20 th – Oct. 12 th	Dates: Oct. 15 th – Nov. 23 rd	Dates: Nov. 26 th – Jan. 18 th	Dates: Jan. 21 st – March 15 th	Dates: March 18 th – Apr. 26 th	Dates: Apr. 29 th – June 14 th
Transdisciplinary Theme	Where We Are in Place and Time	Who We Are	How We Express Ourselves	How We Organize Ourselves	Sharing the Planet	How the World Works
Unit Title	Exploration	Challenges	The Natural World is Awesome	Crisis	Resources	Technology Rocks
Central Idea	Exploration leads to discoveries and new understandings.	Challenges can impact the way we make choices in the future.	People express appreciation for the natural world in many different ways.	Communities have developed ways of organizing themselves to respond to a crisis.	People's use of resources impact the environment.	Advancements in technologies allow us to understand our universe.
Lines of Inquiry (3-4)	<ul style="list-style-type: none"> •The meaning of exploration •Motivation for exploration •Impact of exploration 	<ul style="list-style-type: none"> • The misconceptions of easy success • Challenges we face as humans • The benefits of failure 	<ul style="list-style-type: none"> •Aesthetics of the natural world •Celebration of the natural world •Natural world through the arts 	<ul style="list-style-type: none"> •Personal, local and global crisis •Ways of preparing and responding to crisis •The role of organizations during a crisis 	<ul style="list-style-type: none"> •Finite and infinite resources •Environmental impact •Future implications of finite resources 	<p>Mini PYPx (LOI will be determined by students)</p>
Key Concepts (2-3)	Change Perspective Reflection	Reflection Connection Responsibility	Perspective Form Connection	Function Causation Responsibility	Responsibility Change Causation	<p>(Key Concept will be determined by students)</p>
Related Concepts (3-4)	Exploration Wealth Power Navigation	Identity Ownership Idealism Growth	Expression Natural Celebration Symmetry	Communities Organization Response Natural Disasters	Consumption Resource Impact	<p>(Related Concepts will be determined by students)</p>
Transdisciplinary Skills (1-2)	Research Skills Self-Management Skills	Thinking Skills	Communication Skills Social Skills	Thinking Skills Communication Skills	Research Skills Social Skills	<p>(Skills will be determined by students)</p>
Attitudes (2)	Cooperation Curiosity	Independence Confidence	Appreciation Creativity	Integrity Empathy	Commitment Respect	<p>(Attitudes will be determined by students)</p>
Learner Profile Attributes (2)	Inquirer Risk Taker	Balanced Thinker	Communicator Open Minded	Reflective Caring	Knowledgeable Principled	<p>(Learner Profile will be determined by students)</p>

<p style="text-align: center;">Science Scope and Sequence Outcomes</p>	<p>PYP Outcomes: - demonstrate an understanding of other methods of navigation (for example, compasses, satellites.)</p> <p>NB Outcomes: Additional Outcomes:</p>	<p>PYP Outcomes: NB Outcomes: Additional Outcomes:</p>	<p>PYP Outcomes: NB Outcomes: Additional Outcomes:</p>	<p>PYP Outcomes: - explore health and safety issues facing children (for example, spread of disease, accidents, access to health care)</p> <p>NB Outcomes: Additional Outcomes:</p>	<p>PYP Outcomes: - identify and describe different forms of energy - assess renewable and sustainable energy sources (for example, wind, solar, water) - examine ways in which the local community could be improved in relation to the conservation of energy - examine the impact of particular technologies on sustainability - recognize and report on the environmental impact of some manufacturing processes - explain how human activities can have positive or adverse effects on local and other environments (for example, waste disposal, agriculture, industry)</p> <p>NB Outcomes: - relate habitat loss to the endangerment or extinction of plants and animals (301-2) - describe the distinction between minerals and rocks (104-6) - describe how rocks and minerals are used (107-1) - use appropriate terms to describe positive and negative effects of the extraction and/or utilization of rocks and minerals (104-6, 108-1)</p> <p>Additional Outcomes:</p>	<p>PYP Outcomes: - identify regular and irregular events in time and space that occur in the solar system - examine the impact of events that occur in the solar system on Earth - investigate and explain how stars are used for navigation - investigate technology developments - examine the impact of particular technologies on sustainability - suggest areas for future technological advances</p> <p>NB Outcomes: Additional Outcomes:</p>
<p style="text-align: center;">Social Studies Scope and Sequence Outcomes</p>	<p>PYP Outcomes: - identify the reasons why people feel compelled to explore the unknown - investigate the impact of exploration on people in the past, present and future - analyse how available technology influences people's abilities to navigate</p>	<p>PYP Outcomes: - suggest ways in which an individual can overcome adversity - identify and describe ways that family, groups and community influences personal choices - reflect on his or her own misconceptions about people (for example, relating to age,</p>	<p>PYP Outcomes: NB Outcomes: - examine the relationship between humans and the physical environment (4.3.3)</p> <p>Additional Outcomes:</p>	<p>PYP Outcomes: - analyse ways that people adapt when they move from one place to another - assess settlement patterns and population distribution in selected regions, areas or countries - analyse how individuals' and communities' needs and/or wants are met</p>	<p>PYP Outcomes: - explain how supply and demand are affected by population and the availability of resources - explain how human activities can have positive or adverse effects on local and other environments (for example, agriculture, industry)</p>	<p>PYP Outcomes: - analyse information about past and technological advances and societal systems - predict societal and technological changes in the future - identify and describe examples in which technology has changed the lives of people</p>

	<ul style="list-style-type: none"> - demonstrate an understanding of methods of navigation (for example, stars, compasses, satellites) <p>NB Outcomes:</p> <ul style="list-style-type: none"> - explore the concept of exploration (4.1.1) - examine the stories of various explorers of land, ocean, space and ideas (4.2.1) - analyze factors that motivate exploration (4.2.2) - evaluate the impact of exploration over time (4.2.3) <p>Additional Outcomes:</p>	<ul style="list-style-type: none"> race, gender, disability). - explore how families influence the individual - reflect upon how beliefs affect the individual and society - explore how cultures may have certain expectations on how to act <p>NB Outcomes:</p> <p>Additional Outcomes:</p>		<ul style="list-style-type: none"> - describe how organizations and individuals meet the needs and wants of children <p>NB Outcomes:</p> <p>Additional Outcomes:</p>	<ul style="list-style-type: none"> - examine the impact of particular technologies on sustainability <p>NB Outcomes:</p> <ul style="list-style-type: none"> - examine the relationship between humans and the physical environment (4.3.3) <p>Additional Outcomes:</p>	<ul style="list-style-type: none"> - describe the connection between human needs and wants and technological development - reflect on the role of technology in his or her own life <p>NB Outcomes:</p> <p>Additional Outcomes:</p>
Numbers Scope and Sequence Outcomes	<p>PYP Outcomes:</p> <p>Constructing</p> <ul style="list-style-type: none"> - model numbers to millions or beyond using the base 10 place value system (N4.1) <p>Transferring</p> <ul style="list-style-type: none"> - read, write, compare and order whole numbers up to millions or beyond (N4.12) <p>Applying</p> <ul style="list-style-type: none"> - use whole numbers up to millions or beyond in real-life situations (N4.21) <p>NB Outcomes:</p> <ul style="list-style-type: none"> - Represent and describe whole numbers to 1 000 000 (N1) - Use estimation strategies, including; front end rounding, compensation; compatible numbers in problem solving contexts (N2) 	<p>PYP Outcomes:</p> <p>NB Outcomes:</p>	<p>PYP Outcomes:</p> <p>NB Outcomes:</p>	<p>PYP Outcomes:</p> <p>NB Outcomes:</p>	<p>PYP Outcomes:</p> <p>NB Outcomes:</p>	<p>PYP Outcomes:</p> <p>NB Outcomes:</p>
Data Handling Scope and Sequence Outcomes	<p>PYP Outcomes:</p> <p>NB Outcomes:</p>	<p>PYP Outcomes:</p> <p>NB Outcomes:</p>	<p>PYP Outcomes:</p> <p>NB Outcomes:</p>	<p>PYP Outcomes:</p> <p>Constructing</p> <ul style="list-style-type: none"> - understand that probability is based on experimental events (DH3.5) <p>Transferring</p> <ul style="list-style-type: none"> - use tree diagrams to express probability using simple fractions (DH3.9) <p>Applying</p> <ul style="list-style-type: none"> - express probability using simple fractions (DH3.14) <p>NB Outcomes:</p>	<p>PYP Outcomes:</p> <p>Constructing</p> <ul style="list-style-type: none"> - understand that data can be collected, displayed and interpreted using simple graphs, for example, bar graphs, line graphs (DH3.1) - understand that one of the purposes of a database is to answer questions and to solve problems (DH3.4) <p>Transferring</p> <ul style="list-style-type: none"> - collect, display and interpret data using simple graphs, for 	<p>PYP Outcomes:</p> <p>NB Outcomes:</p>

				<p>- Describe the likelihood of a single outcomes occurring using words, such as; impossible, possible, certain (SP3)</p> <p>- Compare the likelihood of two possible outcomes occurring using words, such as; less likely; equally likely; more likely (SP4)</p>	<p>example, bar graphs, line graphs (DH3.6)</p> <p>Applying</p> <p>- select appropriate graph forms to display data in pictographs or bar graphs (DH3.10)</p> <p>NB Outcomes:</p> <p>- Differentiate between first hand and second hand data (SP1)</p> <p>- Construct and interpret double bar graphs to draw conclusions (SP2)</p>	
<p>Measurement Scope and Sequence Outcomes</p>	<p>Phase Three Conceptual Understandings:</p> <p>Objects and events have attributes that can be measured using appropriate tools.</p> <p>Relationships exist between standard units that measure the same attributes.</p> <p>PYP Outcomes:</p> <p>Constructing:</p> <ul style="list-style-type: none"> - understand the use of standard units to measure perimeter, <u>area</u> and <u>volume</u> (M3.1) - understand that measures can fall between numbers on a measurement scale, for example, 3.5 kg, between 4cm and 5cm (M3.2) - understand relationships between units, for example, meters, centimeters and millimeters (M3.3) <p>Transferring</p> <ul style="list-style-type: none"> - estimate and measure using standard units of measurement: perimeter, <u>area</u> and <u>volume</u> (M3.5) - describe measures that fall between numbers on a scale (M3.6) <p>Applying</p> <ul style="list-style-type: none"> - use standard units of measurement to solve problems in real-life situations 	<p>PYP Outcomes:</p> <p>NB Outcomes:</p>	<p>PYP Outcomes:</p> <p>NB Outcomes:</p>	<p>PYP Outcomes:</p> <p>Transferring</p> <ul style="list-style-type: none"> - read and write digital and analogue time on a 12-hour and 24-hour clock (M3.7) <p>NB Outcomes:</p>	<p>PYP Outcomes:</p> <p>NB Outcomes:</p>	<p>PYP Outcomes:</p> <p>Applying:</p> <ul style="list-style-type: none"> - use timelines in units of inquiry and other real-life situations (M3.10) <p>NB Outcomes:</p>

	<p>involving perimeter, <u>area</u> and <u>volume</u> (M3.8) - select appropriate tools and units of measurement (M3.9)</p> <p>NB Outcomes: - Design and construct different rectangles given either perimeter or area, or both (whole numbers) and draw conclusions (SS1) - Demonstrate an understanding of measuring length (mm and km) (SS2) - Demonstrate an understanding of volume by; selecting and justifying referents for cm³ or m³ units; estimating volume by using referents for cm³ or m³; measuring and recording volume (cm³ or m³); constructing rectangular prisms for a given volume (SS3) - Demonstrate an understanding of capacity by; describing the relationships between mL and L; selecting and justifying referents for mL or L units; estimating capacity by using referents for mL or L; measuring and recording capacity (mL or L) (SS4)</p>					
<p>Patterns and Function Scope and Sequence Outcomes</p>	<p>PYP Outcomes: NB Outcomes:</p>	<p>PYP Outcomes: NB Outcomes:</p>	<p>PYP Outcomes: NB Outcomes</p>	<p>PYP Outcomes: NB Outcomes</p>	<p>Phase Three Conceptual Understandings: By analyzing patterns and identifying rules for patterns, it is possible to make predictions.</p> <p>PYP Outcomes: Constructing - understand that patterns can be analysed and rules identified (PF3.1) Transferring - describe the rule for a pattern in a variety of ways (PF3.5)</p>	<p>PYP Outcomes: NB Outcomes</p>

					<p>- represent rules for patterns using words, symbols and tables (PF3.6)</p> <p>Applying</p> <p>- select appropriate methods for representing patterns, for example using words, symbols and tables (PF3.8)</p> <p>- use number patterns to make predictions and solve problems (PF3.9)</p> <p>NB Outcomes:</p> <p>- Determine the pattern rule to make predictions about subsequent terms (elements) (PR1)</p> <p>- Solve problems involving single- variable, one-step equations with whole number coefficients and whole number solutions (PR2)</p>	
<p>Shape and Space Scope and Sequence Outcomes</p>	<p>PYP Outcomes: NB Outcomes</p>	<p>PYP Outcomes: NB Outcomes</p>	<p>Phase Three Conceptual Understandings:</p> <p>Changing the position of a shape does not alter its properties.</p> <p>Shapes can be transformed in different ways.</p> <p>Geometric shapes and vocabulary are useful for representing and describing objects and events in real-world situations.</p> <p>PYP Outcomes:</p> <p>Constructing</p> <ul style="list-style-type: none"> - understand the common language used to describe shapes (SS3.1) - understand the properties of regular and irregular polygons (SS3.2) - understand congruent or similar shapes (SS3.3) - understand that lines and axes of reflective and rotational symmetry assist with the construction of shapes (SS3.4) <p>Transferring</p>	<p>PYP Outcomes: NB Outcomes</p>	<p>PYP Outcomes: NB Outcomes</p>	<p>PYP Outcomes: NB Outcomes</p>

			<ul style="list-style-type: none"> - sort, describe and model regular and irregular polygons (SS3.8) - describe and model congruency and similarity in 2D shapes (SS3.9) Applying - analyse and describe 2D and 3D shapes, including regular and irregular polygons, using geometrical vocabulary (SS3.13) - identify, describe and model congruency and similarity in 2D shapes (SS3.14) - apply knowledge of transformations to problem-solving situations (SS3.16) NB Outcomes: - Describe and provide examples of edges and faces of 3D objects and sides of 2D shapes that are; parallel; intersecting; perpendicular; vertical; horizontal (SS5) - Identify and sort quadrilaterals, including; rectangles, squares, trapezoids, parallelograms, rhombuses according to their attributes (SS6) - Perform a single transformation (translation, rotation or reflection) of a 2D shape, (with or without technology) and draw and describe the image (SS7) - Identify a single transformation including translation, a rotation and a reflection of 2D shapes (SS8) 			
<p>Language Scope and Sequence Outcomes</p> <p>Listening & Speaking</p>	<p>PYP Outcomes:</p> <p>NB Outcomes:</p> <p>- engage in and respond to oral presentations (e.g. Retell a story, sing a song) (SL2.4)</p>	<p>Phase Four Conceptual Understanding: Taking time to reflect on what we hear and say helps us to make informed judgements and form new opinions.</p> <p>PYP Outcomes:</p> <p>- listen appreciatively and responsively, presenting their own point of view and respecting the views of others (LS4.1)</p>	<p>Phase Four Conceptual Understanding: The grammatical structures of language enable members of a language community to communicate with each other.</p> <p>PYP Outcomes:</p> <p>- use a range of specific vocabulary in different situations, indicating an awareness that language is</p>	<p>PYP Outcomes:</p> <p>NB Outcomes:</p>	<p>PYP Outcomes:</p> <p>NB Outcomes:</p>	<p>PYP Outcomes:</p> <p>NB Outcomes:</p>

		<p>- argue persuasively and defend a point of view (LS4.6)</p> <p>NB Outcomes:</p>	<p>influenced by purpose audience and context (LS4. 10)</p> <p>- appreciate that language is not always used literally; understand and use the figurative language of their own culture (LS4.15)</p> <p>NB Outcomes:</p> <p>- engage in and respond to oral presentations (e.g. Retell a story, sing a song) (SL2.4)</p>			
<p>Language Scope and Sequence Outcomes</p> <p>Viewing & Presenting</p>	<p>PYP Outcomes:</p> <p>NB Outcomes:</p>	<p>PYP Outcomes:</p> <p>NB Outcomes:</p>	<p>PYP Outcomes:</p> <p>NB Outcomes:</p>	<p>Phase Four Conceptual Understanding: Interpreting visual texts involve making an informed judgement about the intention of the message.</p> <p>PYP Outcomes:</p> <ul style="list-style-type: none"> - view, respond to and describe visual information communicating in oral, writing and visual form (VP4.1) - describe personal reactions to visual messages; reflect on why others may perceive the images differently (VP4.2) - recognize and name familiar visual texts and explain why they are or are not effective, for example, advertising, logos, labels, signs, billboards (VP4.4) - interpret visual cues in order to analyse and make inferences about the intention of the message (VP4.5) - design posters and charts, using shapes, colours, symbols, layout and fonts, to achieve particular effects; explain how the desired effect is achieved (VP4.8) - discuss and explain visual images and effects using appropriate terminology, for example, image, symbol, graphics balance, techniques, composition (VP4.11) - experience a range of different visual language formats; appreciate and describe why particular formats are selected to 	<p>Phase Four Conceptual Understanding: Visual texts have the power to influence thinking and behavior.</p> <p>PYP Outcomes:</p> <ul style="list-style-type: none"> - experience a range of different visual language formats; appreciate and describe why particular formats are selected to achieve particular events (VP4. 12) - realize that visual presentations have been created to reach out to a particular audience and influence the audience in some way; discuss the effects used and how they might influence the audience (VP4.14) <p>NB Outcomes:</p>	<p>PYP Outcomes:</p> <p>NB Outcomes:</p>

				<p>achieve particular events (VP4.12) - realize that visual presentations have been created to reach out to a particular audience and influence the audience in some way; discuss the effects used and how they might influence the audience (VP4.14) NB Outcomes:</p>		
<p>Language Scope and Sequence Outcomes</p> <p>Reading</p>	<p>Phase Four Conceptual Understanding: Reading and thinking work together to enable us to make meaning.</p> <p>PYP Outcomes:</p> <ul style="list-style-type: none"> - understand and respond to the ideas, feelings and attitudes expressed in various texts, showing empathy for characters (R4.3) - understand that stories have a plot; identify the main idea; discuss and outline the sequence of events leading to the final outcome (R4.5) - use reference books, dictionaries, and computer and web-based applications with increasing independence and responsibility (R4.7) - as part of the inquiry process, work collaboratively with others to access, read, interpret and evaluate a range of source materials (R4.9) - identify relevant, reliable and useful information and decide on appropriate ways to use it (R4.10) - access information from a variety of texts both in print and online, for example, newspapers, magazines, journals, comics, graphic books, e-books, blogs, wikis (R4.11) - know when and how to use the internet and multimedia resources for research (R4.12) <p>NB Outcomes:</p>	<p>PYP Outcomes:</p> <p>NB Outcomes:</p> <ul style="list-style-type: none"> - describe, share, and discuss their personal reactions to texts (RV 6.1) - give reasons for their opinions about texts and types of texts and the work of authors and illustrators (RV 6.2) <p>Reading Genre: Realistic Fiction/Character Study</p>	<p>PYP Outcomes:</p> <p>NB Outcomes:</p> <ul style="list-style-type: none"> - describe, share, and discuss their personal reactions to texts (RV 6.1) <p>Reading Genre: Poetry</p>	<p>PYP Outcomes:</p> <p>NB Outcomes:</p> <ul style="list-style-type: none"> - use pictures and illustrations, word structures, and text features (e.g., table of contents, headings and subheadings, glossaries, structures of narrative and expository texts, key ideas, margin notes) to locate topics and obtain or verify their understanding of information (RV 4.1) <p>Reading Genre: Informational/Nonfiction</p>	<p>Phase Four Conceptual Understanding: Knowing what we aim, to achieve helps us to select useful reference material and conduct research.</p> <p>PYP Outcomes:</p> <ul style="list-style-type: none"> - appreciate that writers plan and structure their stories to achieve particular effects; identify features that can be replicated when planning their own stories (R4.6) <p>NB Outcomes:</p> <p>Reading Genre: Standalone (Sci-Fi Fantasy)</p>	<p>PYP Outcomes:</p> <ul style="list-style-type: none"> - distinguish between fiction and non-fiction and select books appropriate to specific purposes (R4.2) (Unit 6) <p>NB Outcomes:</p> <p>Reading Genre: Standalone</p>

	<p>- answer, with assistance, their own and others' questions by seeking information from a variety of texts (RV 5.1)</p> <ul style="list-style-type: none"> • Recognize the purpose of classification systems and basic reference material • Use a range of reference texts and a database or an electronic search to facilitate the selection process • Reflect on the process of generating and responding to their own and others' questions • Determine their own and community (class) needs of information <p>Reading Genre: Informational (Biographies)/Readers Theatre</p>					
<p>Language Scope and Sequence Outcomes</p> <p>Writing</p>	<p>PYP Outcomes: NB Outcomes:</p> <p>Writing Form: Recount</p>	<p>Phase Four Conceptual Understanding: Asking questions of ourselves and others helps to make our writing more focused and purposeful.</p> <p>PYP Outcomes: NB Outcomes:</p> <p>Writing Form: Personal Recount</p>	<p>Phase Four Conceptual Understanding: Writing and thinking work together to enable us to express ideas and convey meaning.</p> <p>PYP Outcomes: - write independently and with confidence, demonstrating a personal voice as a writer</p> <p>NB Outcomes: - experiment with language appropriate to audience, purpose, and form, that enhances meaning and demonstrates imagination in writing and other ways of representing (WR 8.3) - demonstrate an awareness of purpose and audience (WR 9.2)</p> <p>Writing Form: Poetry</p>	<p>PYP Outcomes: NB Outcomes: - experiment with different ways of making their own notes (W 8.2)</p> <p>Writing Form: Descriptive/Explanatory Report</p>	<p>PYP Outcomes: NB Outcomes: - experiment with different ways of making their own notes (W 8.2)</p> <p>Writing Form: Persuasive</p>	<p>PYP Outcomes: NB Outcomes: - experiment with different ways of making their own notes (W 8.2)</p> <p>Writing Form: Procedural (Process of Inquiry)</p>
<p>PSPE Scope and Sequence</p>	<p>Identity: Phase Four Conceptual Understanding: Stereotyping and prejudging can lead to misconceptions and conflict.</p>	<p>Identity: PYP Outcomes: - recognize how a person's identity affects how they are perceived by others and influences interactions (I4.3)</p>	<p>Identity: Active Living: Phase Four Conceptual Understanding:</p>	<p>Identity: Phase Four Conceptual Understanding: Coping with situations of change, challenge and</p>	<p>Identity: Active Living: Interactions: Phase Four Conceptual Understanding:</p>	<p>Identity: Active Living: Interactions:</p>

	<p>Active Living: Interactions:</p>	<p>Active Living: Interactions:</p>	<p>Complexity and style adds aesthetic value to a performance.</p> <p>PYP Outcomes: - introduce greater complexity and refine movements to improve the quality of a movement sequence (AL4.6)</p> <p>Interactions:</p>	<p>adversity develops our resilience.</p> <p>Active Living: Interactions:</p>	<p>People are interdependent with, and have a custodial responsibility towards, the environment in which they live.</p> <p>People have a responsibility to repair and restore relationships and environments where harm has taken place.</p> <p>PYP Outcomes: - take action to support reparation in relationships and in the environment when harm has been done (Int.4.5)</p>	
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<p>Year Round Language Outcomes</p>	<p>Listening and Speaking</p> <ul style="list-style-type: none"> - listen for specific purpose in a variety of situations (LS4.2) - identify and expand on main ideas in familiar oral texts (LS4.3) - listen reflectively to stories read aloud in order to identify story structures and ideas (LS4.4) - understand that ideas and opinions can be generated, developed and presented through talk; they work in pairs and groups to develop oral presentation (LS4.5) - explain and discuss their own writing with peers and adults (LS4.7) <ul style="list-style-type: none"> - begin to paraphrase and summarize (LS4.8) - organize thoughts and feelings before speaking (LS4.9) <ul style="list-style-type: none"> - realize that grammatical structures can be irregular and begin to use them appropriately and consistently (LS4.11) - use oral language appropriately, confidently and with increasing accuracy (LS4.12) <ul style="list-style-type: none"> - verbalize their thinking and explain their reasoning (LS4.13) - recognize that different forms of grammar are used in different contexts (LS4.14) <p>New Brunswick Outcomes:</p> <ul style="list-style-type: none"> - explore and discuss their thoughts, ideas, and experiences and consider those of their peers (SL 1.1) - ask and respond to questions to clarify information and explore solutions to problems (SL 1.2) <ul style="list-style-type: none"> - explain personal opinions and respond to the questions and opinions of others (SL 1.3) - listen to others' ideas or opinions expressed (SL 1.4) - contribute to conversations small-group and whole-group discussion, show an awareness of when to speak and when to listen (SL 2.1) - use word choice, tone of voice, facial expressions, and gestures appropriate to the speaking occasion (SL 2.2) - give and follow instructions and respond to questions and directions (SL 2.3) <ul style="list-style-type: none"> - show basic courtesies of conversation in group interactions (SL 3.1) - identify examples of prejudice and stereotyping in oral language, and use language that shows respect for all people (SL 3.2) <ul style="list-style-type: none"> - show an awareness of the kinds of language appropriate to different situations and audiences (SL 3.3) 	<p>Viewing and Presenting</p> <ul style="list-style-type: none"> - understand and explain how visual effects can be used to reflect a particular context (VP4.3) - explain how relevant personal experiences can add to the meaning of a selected film/movie; write and illustrate a personal response (VP4.6) <ul style="list-style-type: none"> - identify aspects of body language in a dramatic presentation and explain how they are used to convey the mood and personal traits of characters (VP4.7) - prepare, individually or in collaboration, visual presentations using a range of media, including computer and web-based applications (VP4. 10) <ul style="list-style-type: none"> - observe and discuss the choice and composition of visual presentations and explain how they contribute to meaning and impact, for example, facial expressions, speech bubbles, word images to convey sound effects (VP4.13) 	<p>Reading</p> <ul style="list-style-type: none"> - read a variety of books for pleasure, instruction and information; reflect regularly on reading and set future goals (R4.1) <ul style="list-style-type: none"> - recognize the author's purpose, for example, to inform, entertain persuade, instruct (R4.4) - know how to skim and scan texts to decide whether they will be useful, before attempting to read in detail (R4.8) - understand that the internet must be used with the approval and supervision of a parent or teacher; read, understand and sign the school's cyber-safety policy (R4.13) <p>New Brunswick Outcomes:</p> <ul style="list-style-type: none"> - select with growing independence, texts appropriate to their interests and learning needs (RV 4.1) <ul style="list-style-type: none"> - read widely and experience a variety of children's literature with an emphasis in genre and authors (RV 4.2) - use and integrate the pragmatic, semantic, syntactic and graphophonic cueing systems (including context cues; word order; suffixes, compound words, contractions, and singular and plural words) and a variety of strategies to construct meaning (RV 4.4) - describe their own processes and strategies in reading and viewing (RV 4.5) <ul style="list-style-type: none"> - use their background knowledge to question information presented in print and visual texts (RV 7.1) - identify conventions and characteristics of different types of print and media texts that help them understand what they read and view (RV 7.2) <ul style="list-style-type: none"> - respond critically to texts by; (RV 7.3) <ul style="list-style-type: none"> • Asking questions and formulating understandings • Discussing texts from the perspective of their own experiences • Identifying instances where language is being used, not only to entertain, but to manipulate persuade or control them • Identifying instances of prejudice and stereotyping 	<p>Writing</p> <ul style="list-style-type: none"> - write for a range of purposes, both creative and informative, using different types of structures and styles according to the purpose of the writing (W4.2) - show awareness of different audiences and adapt writing appropriately (W4.3) <ul style="list-style-type: none"> - select vocabulary and supporting details to achieve desired effects (W4.4) - organize ideas in a logical sequence (W4.5) - reread, edit and revise to improve their own writing, for example, content, language, organization (W4.6) <ul style="list-style-type: none"> - respond to the writing of others sensitively (W4.7) - use appropriate punctuation to support meaning (W4.8) - use knowledge of written code patterns to accurately spell high-frequency and familiar words (W4.9) <ul style="list-style-type: none"> - use a range of strategies to record words/ideas of increasing complexity (W4.10) - realize that writers ask questions of themselves and identify ways to improve their writing, for example, "Is this what I meant to say?", "Is it interesting/relevant?" (W4.11) - check punctuation, variety of sentence starters, spelling, presentation (W4.12) - use a dictionary and thesaurus to check accuracy, broaden vocabulary and enrich their writing (W4.13) - work cooperatively with a partner to discuss and improve each other's work, taking the roles of authors and editors (W4.14) - work independently, to produce written work that is legible and well-presented, written either by hand or in digital format (W4.15) <p>New Brunswick Outcomes:</p> <ul style="list-style-type: none"> - use strategies in writing and other ways of representing to; (W 8.1) <ul style="list-style-type: none"> • formulate questions • generate topics of personal interest and importance to express feelings, opinions, and imaginative ideas • discover and express personal attitudes, feelings and opinions
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				<ul style="list-style-type: none"> • compare their own thoughts and beliefs to those of others • describe feelings reactions, values and attitudes <ul style="list-style-type: none"> • record experiences • formulate goals for learning • practice strategies for monitoring their own learning - experiment with language appropriate to audience, purpose, and form, that enhances meaning and demonstrates imagination in writing and other ways of representing (W 8.3) <ul style="list-style-type: none"> - create written and media texts, collaboratively and independently, in different modes and in a variety of forms <ul style="list-style-type: none"> • recognize that particular forms require the use of specific features, structures, and patterns (W 9.1) - demonstrate an awareness of purpose and audience (W 9.2) - invite responses to early drafts of their writing/media productions <ul style="list-style-type: none"> • use audience reaction to help shape subsequent drafts (W 9.3) - develop a range of prewriting, drafting, revising, editing/proofreading, and presentation strategies (W 10.1) - demonstrate an understanding of many conventions of written language in final products (W 10.2) <ul style="list-style-type: none"> • correctly spell many familiar and commonly used words • demonstrate an increasing understanding of punctuation, capitalization, and paragraphing • demonstrate a growing awareness of appropriate syntax <ul style="list-style-type: none"> • use references while editing - use technology with increasing proficiency in writing and other forms of representing (W 10.3) - demonstrate a commitment to shaping pieces of writing and other presentations through stages of development (W 10.4) - select, organize, and combine relevant information from two or more sources to construct and communicate meaning (W 10.5) <p style="text-align: center;">Year around Standalone Writing Unit; Narrative</p>
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Year Round Math Outcomes	<p style="text-align: center;">Numbers</p> <p style="text-align: center;">PYP Outcomes:</p> <p style="text-align: center;">Constructing</p> <ul style="list-style-type: none"> - model equivalent fractions (N3.2) - use the language of fractions, for example, numerator, denominator (N3.3) - model decimal fractions to hundredths or beyond (N3.4) - model multiplication and division of whole numbers (N3.5) - use the language of multiplication and division, for example, factor, multiple product, quotient, prime numbers, composite numbers (N3.6) - model addition and subtraction of fractions with related/unlike denominators (N3.7) - model addition and subtraction of decimals (N3.8) - model numbers to millions or beyond using the base 10 place value system (N4.1) - model decimal fractions to thousands or beyond (N4.7) <p style="text-align: center;">Transferring</p> <ul style="list-style-type: none"> - develop strategies for memorizing addition, subtraction, multiplication, and division number facts (N3.10) - read, write, compare and order fractions (N3.11) - read and write equivalent fractions (N3.12) - read, write, compare and order fractions to hundredths or beyond (N3.13) - describe mental and written strategies for multiplication and division (N3.14) - read, write, compare and order whole numbers up to millions or beyond (N4.12) - read, write, compare and order decimal fractions to thousandths or beyond (N4.18) <p style="text-align: center;">Applying</p> <ul style="list-style-type: none"> - use fast recall or multiplication and division number facts in real-life situations (N3.16) - use decimal fractions in real-life situations (N3.17) - use mental and written strategies for multiplication and division in real-life situations (N3.18) - select an efficient method for solving a problem, for example, mental estimation, mental or written strategies, or by using a calculator (N3.19) - use strategies to evaluate the reasonableness of answers (N3.20) 	Data Analysis	Measurement	Patterns and Function	Shape and Space

	<ul style="list-style-type: none"> - add and subtract fractions with related denominators in real-life situations (N3.21) - add and subtract decimals in real-life situations, including money (N3.22) - estimate sum, difference, product and quotient in real-life situations, including fractions and decimals (N3.23) - use whole numbers up to millions or beyond in real-life situations (N4.21) <p style="text-align: center;">New Brunswick Outcomes:</p> <ul style="list-style-type: none"> - represent and describe whole numbers to 1 000 000 (N1) <ul style="list-style-type: none"> - use estimation strategies, including; (in problem-solving contexts) <ul style="list-style-type: none"> • Front end rounding • Compensation • Compatible numbers (N2) - apply mental mathematics strategies and number properties, such as; (to determine answers for basic multiplication facts to 81 and related division facts) <ul style="list-style-type: none"> • Skip counting from a known fact • Using doubling or halving • Using patterns in the 9s facts • Using repeated doubling or halving (N3) - apply mental mathematics strategies for multiplication such as; <ul style="list-style-type: none"> • Annexing then adding zero • Halving and doubling • Using the distributive property (N4) - demonstrate an understanding of multiplication (2-digit by 2-digit) to solve problems (N5) - demonstrate, with and without concrete materials, an understanding of division (3-digit by 1-digit) and interpret remainders to solve problems (N6) - demonstrate an understanding of fractions by using concrete and pictorial representations to; <ul style="list-style-type: none"> • Create sets of equivalent fractions • Compare fractions with like and unlike denominators (N7) - describe and represent decimals (tenth, hundredths, thousandths) concretely, pictorially and symbolically (N8) - relate decimals to fractions (to thousandths) (N9) <ul style="list-style-type: none"> - compare and order decimals (to thousandths) by using; 				
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	<ul style="list-style-type: none"> • Benchmarks • Place value • Equivalent decimals (N10) <p>- demonstrate an understanding of addition and subtraction of decimals (limited to thousandths) (N11)</p>				
Year Round Skills	Science	<p>Observe carefully in order to gather data</p> <p>Use a variety of instruments and tools to measure data accurately</p> <p>Use scientific vocabulary to explain their observations and experiences</p> <p>Identify or generate a question or problem to be explored</p> <p>Plan and carry out systematic investigations, manipulating variables as necessary</p> <p>Make and test predictions</p> <p>Interpret and evaluate data gathered in order to draw conclusions</p> <p>Consider scientific models and application of these models (including their limitations)</p>			
	Social Studies	<p>Formulate and ask questions about the past, the future, places and society</p> <p>Use and analyse evidence from a variety of historical, geographical and societal sources</p> <p>Orientate in relation to place and time</p> <p>Identify roles, rights and responsibilities in society</p>			
	PYP Transdisciplinary Skills	<p>Social Skills</p> <ul style="list-style-type: none"> Accepting responsibility Respecting others Cooperating Resolving conflict Group decision-making Adopting a variety of group roles 	<p>Communication Skills</p> <ul style="list-style-type: none"> Listening Speaking Reading Viewing Presenting Non-verbal communication 	<p>Research Skills</p> <ul style="list-style-type: none"> Formulating questions Observing Planning Collecting data Recording data Organizing data Interpreting data Presenting research findings 	<p>Thinking Skills</p> <ul style="list-style-type: none"> Acquisition of knowledge Comprehension Application Analysis Synthesis Evaluation Dialectical thought Metacognition