

		Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6	Unit 7	
Year 1	Unit Title	The Job Plan	Flavors of the World	Better Buy/Is it a Deal	Get to the Point	Game On!	Due to new curriculum, this unit is still under development	Stats in the Real World	
	Topics	Geometry	Ratios	Unit Rates & Percents	Base 10 Arithmetic	Expressions & Equations	Rational Numbers	Data Sets and distribution	
	Key & Related Concepts	Key: Relationships Related: Scale	Key: Relationships Related: Equivalence	Key: Relationships Related: Quantity, Justification	Key: Form Related: Representation, Simplification	Key: Form Related: Pattern, Representation	Key: Related:	Key: Form Related: Model, Representation	
	Global Context & Exploration	Orientation in Time and Space - <i>scale, duration, frequency and variability</i>	Personal and Cultural Expression - <i>artistry, craft, creation, beauty</i>	Globalization and Sustainability - <i>consumption, conservation, natural resources & public goods</i>	Orientation in Time and Space - <i>peoples, boundaries, exchange & interaction</i>	Scientific and Technical Innovation - <i>systems, models, methods; products, processes and solutions</i>		Scientific and Technical Innovation - <i>systems, models, method; products, processes and solutions</i>	
	Statement of Inquiry	The orientation of space can be determined by its relationship to scale.	The understanding of relationships allows us to express our, as well as other, cultures' aesthetics.	Consumers can use their knowledge of quantities to make the best use of resources.	The simplification of exchange is represented in various forms.	Real world problems and solutions can be represented using form and models.		Modeling and representing data forms helps us analyze and argue.	
	Inquiry Questions	F: How do space and scale relate? C: How can space be efficiently oriented? D: Is there a best way to utilize space?	F: How are factors used to generate equivalency? C: How are equivalent relationships determined? D: Are equivalent relationship important in the expression of our cultural crafts? Why or why not?	F: What methods are used to determine quantities? C: How can you justify a decision, using your knowledge of quantities? D: Are proportional relationships important in "real life"? Explain.	F: What are the different forms of exchange? C: How can exchange be simplified? D: Should all exchanges be represented the same way? Why or why not?	F: In what ways can we express a problem, using different forms? C: How do we communicate through different models? D: Do models communicate more effectively than words? Justify.		F: What is the difference between various models? C: How does the way that data is collected, organized and modeled influence interpretation? D: What models most effectively communicate ideas? Why?	
	Approaches to Learning	Transfer skills: utilizing skills and knowledge in multiple contexts	Critical Thinking Skills: gather and organize relevant information to formulate an argument.	Transfer skills: apply skills and knowledge in unfamiliar situations, combine	Communication Skills: understand and use mathematical notation	Creative Thinking Skills: apply existing knowledge to generate new ideas, products or processes.		Communication Skills: interpret and use effectively modes of non-verbal communication,	

			Transfer Skills: utilize effective learning strategies in subject groups and disciplines	knowledge, understanding and skills to create products or solutions	Critical Thinking Skills: draw reasonable conclusions and generalizations	Transfer Skills: apply skills and knowledge in unfamiliar situations, combine knowledge, understanding and skills to create products or solutions		organize and depict information logically	
	Culminating Task	Finding square footage of different rooms based off of task cards	Recipe alterations	Is it a deal? Price analysis	Restaurant bill payments	Game On... changing quantities		Data displays	
	MYP Criteria	D	A	B	D	B		D	
Year 2		Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6		
	Unit Title	Hurricanes	Restaurants	Money Matters	Building Trains	A Box Engineered	Environmental Impacts		
	Topics	Ratios	Percents	Integers	Expressions, Equations, Inequalities	Geometry	Stats & Probability		
	Key & Related Concepts	Key: Relationships Related: Patterns, Equivalence	Key: Relationships Related: Quantity	Key: Logic Related: Quantity, Representation	Key: Logic Related: Model, Representation	Key: Form Related: Space, Measurement	Key: Logic Related: Generalization, Justification		
	Global Context & Exploration	Scientific and Technical Innovation - <i>products, processes, solutions</i>	Scientific and Technical Innovation - <i>system, models, methods</i>	Identities and Relationships - <i>lifestyle choices</i>	Scientific and Technical Innovation - <i>system, models, methods</i>	Globalization and Sustainability - <i>consumption and conservation of natural resources and public goods</i>	Identities and Relationships - <i>consciousness and mind</i>		
	Statement of Inquiry	Equivalent relationships form patterns.	Models demonstration how quantities are interconnected.	Representations of different quantities support logical reasoning that is	Logic facilitates representations of models in a variety of contexts.	Form of an object determines space and measurement which greatly impact the	Generalization justified by logic, should be a mindset.		

				used to make lifestyle choices.		consumption and conservation of natural resources and public goods.			
Inquiry Questions	<p>F: How do people use patterns? C: How can we use relationships to make predictions in the real world? D: Is there only one pattern in all equivalent relationships? Explain.</p>	<p>F: What models help measure relationships? C: How are quantities interconnected? D: Can different models influence your perspective on how we look at relationships? Explain.</p>	<p>F: How is logic used to make rules? C: How can quantities be represented by models in real world situations? D: Does logical reasoning influence lifestyle choices?</p>	<p>F: What forms of representation can be used to share ideas? C: How do we use models to help solve problems? D: Why do we need different forms of representations?</p>	<p>F: In what ways do we describe the form of objects? C: How do measurements help describe form and space? D: Does form affect our life? Justify your answer.</p>	<p>F: What logic is needed to make generalizations? C: How do you justify your generalization? D: What mindset justifies how we treat the environment?</p>			
Approaches to Learning	<p>Creative Thinking Skills: practice visible thinking skills and techniques Transfer Skills: apply skills and knowledge in unfamiliar situations</p>	<p>Critical Thinking Skills: practice observing carefully in order to recognize problems, draw reasonable conclusions and generalizations Transfer Skills: inquire in different contexts to gain a different perspective</p>	<p>Critical Thinking Skills: practice observing carefully in order to recognize problems, interpret data Transfer Skills: combine knowledge, understanding and skills to create products or solutions</p>	<p>Communication Skills: interpret and use effectively modes of non-verbal communication. Reflection Skills: identify strengths and weaknesses of personal learning strategies (self-assessment), demonstrate flexibility in the selection and use of learning strategies.</p>	<p>Creative Thinking Skills: use brainstorming and visual diagrams to generate new ideas and inquires. Transfer Skills: apply skills and knowledge in unfamiliar situations, combine knowledge, understanding and skills to create products or solutions.</p>	<p>Critical Thinking Skills: gather and organize relevant information to formulate an argument, Interpret data, Draw reasonable conclusions & generalizations</p>			
Culminating Task	Hurricane project	Restaurant project	Budget ledger	Toy train models	Juice box engineering	Interdisciplinary task w/ science: evaluate the reintroduction of wolves at			

						Yellowstone National Park			
MYP Criteria		B & C	D	A, C & D	A, B, & C	A, D	B		
		Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6	Unit 7	Unit 8
Year 3	Unit Title	Mathematics in Art	Transformers	Informed Decisions	Cell Phone Plans	How Hard should you Exercise?	Distributive Properties	Space Math	Baseball Fields
	Topics	Transformation & Congruence	Dilation & Similarity	Linear Relationships	Linear Equations & Linear Systems	Functions & Volume	Association in Data	Exponents & Scientific Notation	Pythagorean Theorem
	Key & Related Concepts	Key: Aesthetics Related: Patterns, Quantity	Key: Form Related: Change, Space	Key: Relationships Related: Model, Representations	Key: Systems Related: Patterns, Justification	Key: Relationships Related: Quantity Pattern	Key: Logic Related: Generalization Justification	Key: relationships Related: Quantity, Simplification, Equivalence	Key: Form Related: Space, Justification
	Global Context & Exploration	Scientific and Technical Innovation <i>- Mathematical puzzles</i>	Scientific and Technical Innovation <i>- Digital Life</i>	Orientation in Time and Space <i>- boundaries</i>	Scientific and Technical Innovation <i>- processes; solutions</i>	Identities and Relationships <i>- Health and well-being</i>	Fairness & Development <i>- inequality, difference</i>	Scientific & Technical Innovation <i>- systems, models, methods</i>	Identities & Relationships <i>- competition and cooperation</i>
	Statement of Inquiry	Quantified patterns yield mathematical puzzles that can be found in many aesthetics.	Digital life can provide a new way to view changes in spatial form.	Models enhance the representation of boundaries in a relationship.	Processing patterns in systems provide justifications for the solution.	Positive relationships can be traced to patterns of healthy behaviors.	Inequalities can't be justified by seemingly logical generalization.	Modeling relationships using simplified quantities is a method to interpret solutions within systems	Competition may justify form.
	Inquiry Questions	F: What types of patterns can be found in aesthetics? C: How are patterns and quantities used in aesthetics? D: Can anyone produce an aesthetic by using patterns and mathematical puzzle?	F: What spatial changes do smart phones use? C: What can a digital screen do to form? D: At what point do you think technology companies need to stop adjusting digital screens? Explain	F: How can you make a model for a relationship? C: What effects can boundaries enforce on a relationship? How can you represent these effects? D: Can using a variety of models enhance the representation of boundaries in a relationship? Explain.	F: How can patterns create systems? C: What processes do you follow to justify the solution of systems? D: Does finding a solution justify the process of cracking systems problems? explain	F: What quantity patterns can be functional? C: How can relationships affect your well-being? D: Can positive relationships be harmful to your health? Explain	F: What is the best way to justify logic? C: How can you generalize a logical justification? D: Can logic be used to justify differences and inequalities? Explain	F: What are different methods to keep quantities simplified and equivalent? C: How can you model relationships that have googol? D: What are the benefits and drawbacks of having multiple equivalent representations of quantities?	F: How can form shape space? C: How can the relationship between shape and form be justified? D: Can form and space change the rules of competition?

	Approaches to Learning	Affective Skills: Perseverance – demonstrate persistence and perseverance	Transfer Skills: Apply skills and knowledge in unfamiliar situation	Communication Skills: Interpret and use effectively modes of non-verbal communication	Reflection Skills: Consider content - What did I learn about today?, What don't I yet understand? What questions do I have now?, keep a journal to record reflections	Collaboration Skills: Help others to succeed	Critical Thinking Skills: Draw reasonable conclusions and generalizations	Communication Skills: use and interpret a range of discipline-specific terms and symbols Information Literacy Skills: collect, record, and verify data	Creative Thinking Skills: Use visible thinking strategies and techniques
	Culminating Task	Transformation greeting cards	Smartphone screen evaluation	Savings accounts activity Speeding ticket calculations	Cell phone plan comparison	Maximum heart rate graph	Distributive Properties	"My Planet" travel brochure	Base running analysis
MYP Criteria		C	D	C, D	A	B, D	A, C	A, B, D	A, C