

ROCKRIDGE SECONDARY SCHOOL

Subject Group Overview: Mathematics

MATHEMATICS — YEAR 3									
UNIT	KEY CONCEPT	RELATED CONCEPT(S)	GLOBAL CONTEXT	STATEMENT OF INQUIRY (BC BIG IDEA)	SUMMATIVE(S)	OBJECTIVES	ATLs		
Rates, Ratios	Form	Patterns	Scientific and	Number represents, describes, and compares	Unit Test	A: i, ii, iii C: iii, iv, v D: i, ii, iii	Communication: Interaction		
and Percents	Tom	Space	Technical Innovation	the quantities of ratios, rates, and percents.	Party Planning Project	D: ii, iii	Thinking: Critical-Thinking, Creative- Thinking, Transfer		
					Unit Test	A: i, ii, iii C: ii, iii, v	Communication: Interaction Thinking: Critical-Thinking, Creative-		
Operations with Integers and Fractions	Logic	Equivalence Quantity	Fairness & Development	Computational fluency and flexibility extend to operations with fractions.	Multiplying and Dividing Fractions	B: i, ii, iii			
					Fractions Infographic	C: ii, iii, v	Thinking, Transfer		
Linear Equations	Dolationshins	Change	Identities and	Discrete linear relationships can be	Unit Test	A: i, ii, iii C: ii, iii, v D: i, ii, iii	Communication: Interaction		
and Relations	Relationships	Models	Relationships	represented in many connected ways and used to identify and make generalizations.	Describing and Predicting Linear Patterns	B: i, ii, iii	Thinking: Critical-Thinking, Creative- Thinking, Transfer		
Geometry: Surface Area and Volume	Form	Models Space	Globalization and Sustainability	The relationship between surface area and volume of 3D objects can be used to describe, measure, and compare spatial relationships.	Unit Test	A: i, ii, iii C: ii, iii, v D: i, ii, iii	Communication: Interaction Thinking: Critical-Thinking, Creative- Thinking, Transfer		
MATHEMATICS — YEAR 4									
UNIT	KEY CONCEPT	RELATED CONCEPT(S)	GLOBAL CONTEXT	STATEMENT OF INQUIRY (BC BIG IDEA)	SUMMATIVE(S)	OBJECTIVES	ATLs		

Poly	Polynomials	Logic	Models	Globalization	The principles and processes underlying operations with numbers apply equally to	Unit Test	A: i, ii, iii C: ii, iii, v	Communication: Interaction
	Forynonnais	Logic	Models	and Sustainability	algebraic situations and can be described and analyzed.	Polynomial House Project	C: ii, iii, v D: i, ii, iii, iv, v	Thinking: Critical-Thinking, Creative- Thinking, Transfer
	Rational Numbers and Exponents	Form	Generalization Models	Fairness and Development	Computational fluency and flexibility with numbers extend to operations with rational numbers.	Unit Test	A: i, ii, iii C: ii, iii, v	Communication: Interaction Thinking: Creative-Thinking, Transfer
	Linear Equations and Relations	Relationships	Change Models	ldentities and Relationships	Continuous linear relationships can be identified and represented in many connected ways to identify regularities and make generalizations.	Unit Test	A: i, ii, iii C: ii, iii, v	Communication: Interaction Thinking: Creative-Thinking, Transfer
	Scale and Similarity	Form	Models	Scientific and	Similar shapes have proportional relationships that can be described, measured, and	Unit Test	A: i, ii, iii C: ii, iii, v	Communication: Interaction
			Representation	Technical Innovation	compared.	Apartment Floor Plan	D: i, ii, iii, iv, v	Thinking: Critical-Thinking, Creative- Thinking, Transfer

FOUNDATIONS & PRE-CALCULUS - YEAR 5

	UNIT	KEY CONCEPT	RELATED CONCEPT(S)	GLOBAL CONTEXT	STATEMENT OF INQUIRY (BC BIG IDEA)	SUMMATIVE(S)	OBJECTIVES	ATLs
						Unit Test	A: i, ii, iii C: i, ii, iii, iv, v	Communication:
	Functions and Relations	Relationships	Models Representation	Personal and Cultural Expression	Algebra allows us to generalize relationships through abstract thinking.	Every Graph Tells a Story	D: i, ii, iii, iv, v	Interaction Thinking: Critical-Thinking, Creative- Thinking, Transfer
						Frogger Investigation	B: i, ii, iii	

Prime Factors, Exponent	Form	Change	Scientific and	The meaning of, and connections between, each operation extend to powers and	Unit Test	A: i, ii, iii C: i, ii, iii, iv, v	Communication: Interaction
Laws and Polynomials		Equivalence	Technical Innovation	polynomials.	Exponent Rules	B: i, ii, iii	Thinking: Critical-Thinking, Creative- Thinking, Transfer
Linear Equations and	Relationships	Models	Scientific and	Constant rate of change is an essential attribute of linear relations and has meaning	Unit Test	A: i, ii, iii C: i, ii, iii, iv, v	Communication: Interaction Thinking: Critical-Thinking, Creative- Thinking, Transfer
Systems	Relationships	Simplification	Technical Innovation	in different representations and contexts.	Desmos Polygons Investigation	B: i, ii, iii	
Trice constant		Madala	Scientific and	Trigonometry involves using proportional	Unit Test	A: i, ii, iii C: i, ii, iii, iv, v	Communication: Interaction
Trigonometry	Logic	Models	Technical Innovation	reasoning to solve indirect measurement problems.	Clinometer Group Project	D: i, ii, iii, iv, v	Thinking: Critical-Thinking, Creative- Thinking, Transfer
			WORKPL	ACE MATHEMATICS — YEA	R 5		
UNIT	KEY CONCEPT	RELATED CONCEPT(S)	W O R K P L A	A C E M A T H E M A T I C S — Y E A Statement of inquiry (BC Big idea)	R 5 Summative(s)	OBJECTIVES	ATLs
UNIT	KEY CONCEPT	RELATED CONCEPT(S)	GLOBAL CONTEXT	STATEMENT OF INQUIRY (BC BIG IDEA)		OBJECTIVES D: i, ii, iii, iv, v	ATLs Communication: Interaction
UNIT	KEY CONCEPT Logic	RELATED CONCEPT(S) Patterns		STATEMENT OF INQUIRY	SUMMATIVE(S)		Communication:
Numbers	Logic	Patterns	GLOBAL CONTEXT Indentities and Relationships	STATEMENT OF INQUIRY (BC BIG IDEA) Flexibility with number builds meaning, understanding, and confidence.	SUMMATIVE(S) Business Plan Task	D: i, ii, iii, iv, v A: i, ii, iii	Communication: Interaction Thinking: Critical-Thinking, Creative-
			GLOBAL CONTEXT	STATEMENT OF INQUIRY (BC BIG IDEA) Flexibility with number builds meaning,	SUMMATIVE(S) Business Plan Task Unit Test Discovering the	D: i, ii, iii, iv, v A: i, ii, iii C: i, ii, iii, iv, v	Communication: Interaction Thinking: Critical-Thinking, Creative- Thinking, Transfer Communication:

		Space	Space and Time	by measuring directly and indirectly length, surface area, and volume.	Unit Test	A: i, ii, iii C: i, ii, iii, iv, v	Interaction Thinking: Critical-Thinking, Creative- Thinking, Transfer
					Create a Game	B: i, ii, iii	Communication:
Statistics	Relationships	Models Patterns	Identities and Relationships	Representing and analyzing data allows us to notice and wonder about relationships.	Graph Analysis	C: i, ii, iii, iv, v	Interaction Thinking:
					Unit Test	A: i, ii, iii C: i, ii, iii, iv, v	Critical-Thinking, Creative- Thinking, Transfer