

ALGEBRA

MATHEMATICS - PROGRESSION FRAMEWORK

Grade 10											Grade 10			
Grade 9											Grade 9			
Grade 8											Grade 8			
Grade 7											Grade 7			
Grade 6	Integers					Ratio and Rate			Factors and Multiples	Factorization	Algebraic expression	Algebraic sentence	Linear Equations (1 variable)	Grade 6
Grade 5											Grade 5			
Grade 4											Grade 4			
Grade 3											Grade 3			
Grade 2	Whole Numbers (up to 999)	Addition (3-digit)	Subtraction (3-digit)	Multiplication (1-digit)	Division (1-digit)	Compare and order numbers (up to 999)	Recognize Fractions						Grade 2	
Grade 1	Whole numbers (up to 100)	Addition (2-digit)	Subtraction (2-digit)				Compare and order numbers (up to 100)						Grade 1	

□ Numbers & Operations (Pre-Requisites)

■ Algebra

GEOMETRY

MATHEMATICS - PROGRESSION FRAMEWORK

Grade 10																Grade 10
Grade 9																Grade 9
Grade 8																Grade 8
Grade 7																Grade 7
Grade 6																Grade 6
Grade 5																Grade 5
Grade 4																Grade 4
Grade 3																Grade 3
Grade 2																Grade 2
Grade 1																Grade 1

Numbers & Operations (Pre-Requisites)

Geometry

NUMBERS & OPERATIONS MATHEMATICS - PROGRESSION FRAMEWORK

Grade 10											Variations					Grade 10	
Grade 9	Real and Complex Numbers						Logarithms				Ratio and proportion					Grade 9	
Grade 8	Real Numbers						Cubes and cube roots				Compound proportion	Applications of percentage				Grade 8	
Grade 7	Rational Numbers						Squares and square roots				Direct and inverse proportion	Applications of percentage				Grade 7	
Grade 6	Integers										Ratio and rate	Percentage: Comparison, increment and decrement		Factorization	Factors and Multiples	Grade 6	
Grade 5	Whole numbers (up to 1 000 000)		Addition (6-digit)	Subtraction (6-digit)	Multiplication (5-digit)	Division (5-digit)					Time: Conversion, addition and subtraction	Recognize percentages as fractions	Decimal Numbers (arithmetic) and convert fractions to decimals	Estimation (for 4 digits up to 3 decimal places)	HCF and LCM	Grade 5	
Grade 4	Whole numbers (up to 100 000)	Prime and composite numbers	Addition (5-digit)	Subtraction (5-digit)	Multiplication (4-digit)	Division (4-digit)	Place Value of Numbers (6-digit)	Compare and order numbers (up to 6-digit)			Fractions (arithmetic)		Decimal Numbers (arithmetic)	Estimation (up to nearest 1000 and 2 decimal places)			Grade 4
Grade 3	Whole numbers (up to 10 000)	Even and odd numbers	Addition (4-digit)	Subtraction (4-digit)	Multiplication (2-digit)	Division (2-digit)	Place Value of Numbers (5-digit)	Compare numbers using "<", ">", and "="			Add and subtract fractions				Estimation (up to nearest 100)	Grade 3	
Grade 2	Whole numbers (up to 1 000)		Addition (3-digit)	Subtraction (3-digit)	Multiplication (1-digit)	Division (1-digit)	Place Value of Numbers (3-digit)	Compare and order numbers (up to 1000)			Recognize Fractions						Grade 2
Grade 1	Whole numbers (up to 100)		Addition (2-digit)	Subtraction (2-digit)			Place Value of Numbers (2-digit)	Compare and order numbers (up to 100)									Grade 1

Numbers & Operations

DATA AND PROBABILITY

MATHEMATICS - PROGRESSION FRAMEWORK

Grade 10														Basic statistics				Sets and Functions	Grade 10												
Grade 9																			Grade 9												
Grade 8														Cubes and cube roots	Interpretation of data				Probability: mutually exclusive, independent and combined events	Demonstrating set operations through Venn diagrams		Grade 8									
Grade 7	Rational Numbers															Measures of dispersion	Histogram and frequency polygon			Describe and differentiate sets and operations on sets											
Grade 6	Integers													Squares and square roots	Calculate the measures of central tendency for ungrouped data		Frequency distribution	Draw line graphs		Probability: certain and impossible events, and complement of an event		Set notations and Venn diagrams		Grade 7							
Grade 5															Types of data		Mean and mode for ungrouped data		Draw bar graphs and pie charts		Probability (introduction)										
Grade 4														Estimation (for 4 digits up to 3 decimal places)		Ratio and rate		Percentage: Comparison, increment and decrement		Recognize percentages as fractions		Decimal Numbers (arithmetic) and convert fractions to decimals		Convert measures of length		Convert, add, and subtract time in hours and minutes		Grade 5			
Grade 3														Multiplication (4-digit)		Division (4-digit)		Estimation (up to nearest 1000 and 2 decimal places)		Fractions (arithmetic)		Decimal Numbers (arithmetic)		Convert measures		Convert, add, and subtract mass			Convert, add, and subtract capacity		Convert between units of time
Grade 2	Whole numbers (up to 10 000)		Even and odd numbers		Addition (4-digit)		Subtraction (4-digit)		Compare numbers using "<", ">", and "="		Multiplication (2-digit)		Division (2-digit)		Estimation (up to nearest 100)		Add and subtract fractions				Add and subtract length		Add and subtract mass		Add and subtract capacity		Add and subtract time in hours		Grade 3		
Grade 1	Whole numbers (up to 1000)		Addition (3-digit)		Subtraction (3-digit)		Compare and order numbers (up to 1000)		Multiplication (1-digit)		Division (1-digit)		Recognize Fractions				Recognize units of lengths		Recognize units of mass		Comparison of capacity		Recognize units of time								
Grade 1	Whole numbers (up to 100)		Addition (2-digit)		Subtraction (2-digit)		Compare and order numbers (up to 100)						Comparison of lengths		Comparison of Mass				Read time		Grade 4										
Grade 2														Organize data in a bar graph		Read and interpret bar graphs, line graphs and pie charts		Read and interpret a Carroll diagram, tally charts and picture graphs		Grade 5											
Grade 3														Types of data		Mean and mode for ungrouped data		Draw bar graphs and pie charts			Probability (introduction)		Grade 6								
Grade 4														Calculate the measures of central tendency for ungrouped data		Frequency distribution		Draw line graphs		Probability: certain and impossible events, and complement of an event		Grade 7									
Grade 5														Types of data		Mean and mode for ungrouped data		Draw bar graphs and pie charts		Probability (introduction)			Grade 8								
Grade 6														Types of data		Mean and mode for ungrouped data		Draw bar graphs and pie charts		Probability (introduction)		Grade 9									
Grade 7	Rational Numbers													Types of data		Mean and mode for ungrouped data		Draw bar graphs and pie charts		Probability (introduction)			Grade 10								
Grade 8														Types of data		Mean and mode for ungrouped data		Draw bar graphs and pie charts		Probability (introduction)											
Grade 9														Types of data		Mean and mode for ungrouped data		Draw bar graphs and pie charts		Probability (introduction)											
Grade 10														Types of data		Mean and mode for ungrouped data		Draw bar graphs and pie charts		Probability (introduction)											

Numbers & Operations (Pre-Requisites)

Data & probability progression

LIFE SCIENCES

GENERAL SCIENCE / BIOLOGY - PROGRESSION FRAMEWORK

Grade 10											Man and his environment	Biotechnology	Support and movement	Inheritance		Coordination and control	Gaseous exchange	Homeostasis	Reproduction			Pharmacology		Grade 10
Grade 9	Introduction to biology	Solving a biological problem	Biodiversity					Cells and tissues	Cell cycle			Transport		Bioenergetics		Enzymes	Nutrition					Grade 9		
Grade 8				Ecology			Biotechnology		Inheritance and Cell Division						Chemical reactions						Grade 8			
Grade 7							Human Organ Systems				Plant Systems			Energy	Healthy Life style				Grade 7					
Grade 6							Cells, tissues, Organs and organ System						Growth and Development			Food and digestion					Grade 6			
Grade 5	Classification of living things						Environmental pollution	Microorganisms				Flowers and seeds		Chemical changes					Grade 5					
Grade 4	Characteristics and life processes: major groups of living things		Ecosystems - Diversity of the conditions for life on Earth	Ecosystems - Relationships in simple food chains	Ecosystem - Competition in an ecosystem	Earth's resources	Characteristics and life processes: Functions of major structures in living things								Human health - Symptoms, transmission, and prevention of communicable diseases	Human health - Ways of maintaining good health			Grade 4					

Life Sciences

Physical Sciences-Chemistry

Physical Sciences-Physics

PHYSICAL SCIENCES

GENERAL SCIENCE / PHYSICS - PROGRESSION FRAMEWORK

Grade 10	Introductory electronics	Electrostatics	Current and electricity	Electromagnetism									Sound	Geometrical optics	Simple harmonic motion and waves		Radioactivity	Information and communication technology	Grade 10	
Grade 9																				Grade 9
Grade 8			R = V/I	Electric Power	Precautionary measures															Grade 8
Grade 7		Resistance	Voltage			Pressure	Effect of Force								Refraction of light				Technology	Grade 7
Grade 6	Series and parallel circuits																			Grade 6
Grade 5	Circuit diagrams	Electric current																		Grade 5
Grade 4																				Grade 4

Physical Sciences-Physics

Physical Sciences-Chemistry

Earth and Space Science

PHYSICAL SCIENCES

GENERAL SCIENCE / CHEMISTRY - PROGRESSION FRAMEWORK

Grade 10			Acids, bases and salts		Chemical equilibrium		Organic chemistry	Hydrocarbons	Biochemistry	Environmental chemistry: water	Biochemistry		Chemical industries	Grade 10
Grade 9	Physical states of matter	Fundamentals of chemistry	Structure of atoms	Structure of molecules	Chemical reactivity		Electrochemistry			Environmental chemistry: atmosphere		Periodic table and periodicity of properties		Grade 9
Grade 8			Solutions	Acids, alkalis and salts		Chemical reactions						Periodic table		Grade 8
Grade 7			Chemical bonds										Grade 7	
	Physical & chemical changes		Structure of an atom											
Grade 6	Matter as particles	Mixture	Elements & Compounds										Grade 6	
Grade 5	Physical changes	Chemical changes					Eelctric current							Grade 5
Grade 4	States of matter and its characteristics	Physical properties as a basis of calssifying matter			Forms of energy and enegy transfer									Grade 4

Physical Sciences-Chemistry

Physical Sciences-Physics

EARTH & SPACE SCIENCE

GENERAL SCIENCE / PHYSICS - PROGRESSION FRAMEWORK

Grade 10							Grade 10	
Grade 9							Grade 9	
Grade 8							Grade 8	
Grade 7							Grade 7	
Grade 6							Grade 6	
Grade 5	Structure of Earth	Earth's soil					Grade 5	
Grade 4	Physical characteristics of Earth	Earth's resources	Earth's weather and climate	Familiar forces and the motion of objects	Objects in the Solar System and their movements	Earth's motion and related patterns observed on Earth	Solar and Lunar eclipses	Grade 4

Earth and Space Science

Physical Sciences-Physics