	Term 1	Term 2	Term 3
MYP 1 (Year 7)	Unit Title(s): All About Number; Solving the	Unit Title(s): Shape and Space; Visualizing	Unit Title(s): Fact or Fiction; What are the
	Unknown	Algebra	chances?
	Global Context: Orientation in Time and	Global Context: Fairness and Development;	Global Context: Fairness and Development
	Space; Scientific and Technical Innovation	Orientation in Time and Space.	
	Key concept: Logic	Key concept: Form; Relationships	Key concept: Connections; Logic
	Topics covered:	Topics covered:	Topics covered:
	Fractions	Calculate perimeter and area of 2D shapes	Construct and interpret comparative bar
	Comparing Numbers	(rectangle, square)	charts
	Ordering Numbers	Identify acute, obtuse, and reflex angles	Construct and interpret vertical line charts
	Powers of 10	Recognise and solve problems using angles at	Interpret pie charts and know their
	Negative Numbers	a point and 180 degrees on a straight line	appropriate use
	Prime Numbers	Recognise and use nets of cubes, cuboids,	Choose appropriate graphs or charts to
	Basic Indices	and cylinders	represent data
	Calculate HCF and LCM	Use language of faces, edges and vertices in	Interpret and construct frequency tables
	Square/Cube roots	3D shapes	Find the mode of sets of data
	Rounding and Estimation	Know and solve problems using the	Find the median of a set of data
	BIDMAS	properties and definitions of triangles	Calculate the mean from a frequency table
	Percentage increase and decrease but also	Area and perimeter of quadrilaterals,	Find the mode from a frequency table
	profit and loss	triangles and trapezia	Calculate and understand the range as a
	Ratio	Use and apply the formula for area and	measure of spread (or consistency)
		circumference of a circle	Analyse and compare sets of data,
	Know the meaning of expression, term,	Find the surface area and volume of cuboids	appreciating the limitations of different
	formula, equation	(including cubes)	statistics (mean, median, mode, range)
	Recognize and use square numbers/ cube	Calculate the area and perimeter of	
	numbers in patterns	composite shapes that include basic sections	Know and use the vocabulary of probability
	Continue linear and non-linear number	of a circle (quarter/semi circles)	Understand the use of the 0-1 scale to
	sequences	Finding unknowns when given	measure probability
	Simplify expressions by collecting like terms	area/perimeter/volume using algebra	List all the outcomes for an experiment,
	Manipulate expressions by multiplying a		including the use of tables
	single term over a bracket (the distributive	Plot coordinates	Work out theoretical probabilities for events
	law)	Write the equation of a line parallel to the x-	(number of successes/total number of
	Simplify expressions by expanding, and	axis or the y-axis	outcomes)
	gathering like terms	Identify and draw the lines y = x and y = -x	Know that the sum of probabilities for all
	Substitute integers and fractions into	Find the x and y-intercept of a straight line	outcomes is 1
	expressions and formulae (positive and	Solve problems based on a linear graph	Apply the fact that the sum of probabilities
	negative)	Solve word problems relating to linear	for all outcomes is 1

	Solve basic linear equations Solve problems using basic linear graphs in form y=mx+c Form a general rule for linear sequence Solve linear equations involving word problems Solve multi-step equations, including the use of brackets.	graphs Graphing straight lines using a table of values Graph linear equations in the form y=mx+c Identify linear equations from their graphs.	Interpret and find probabilities from tables Find probabilities from real life scenarios
MYP 2 (Year 8)	Unit Title(s) All About Number; Solving the Unknown	Unit Title(s) Shape and Space; Visualizing Algebra	Unit Title(s) Fact or Fiction; What are the chances?
	Key concept: Logic	Key concept: Form; Relationships	Key concept: Connections; Logic
	Global Context: Orientation in Time and Space; Scientific and Technical Innovation	Global Context: Fairness and Development; Orientation in Time and Space.	Global Context: Fairness and Development
	Use standard form to write large numbers/small numbers Laws of indices (excluding negative and fractional) Identify if a fraction is terminating or recurring Ratio (When given whole amount, part etc.) Solve problems involving ratio in a real-life context (such as those involving conversion, comparison, mixing)	Use knowledge of alternate/corresponding/vertically opposite angles to calculate missing angles Use and apply the formula for area and circumference of a circle Know circle definitions and properties, including: tangent, arc, sector and segment Calculate the area and perimeter of composite shapes that include circles Establish the size of an interior/exterior	Find the mode from a frequency table Find the median from a frequency table Calculate the mean from a frequency table Construct stem and leaf diagram Calculate IQR Construct and interpret histograms for grouped data with equal class intervals Distinguish between continuous and numerical data Distinguish between ordinal and nominal
	Solve problems involving percentage charge Solve original value problems when working with percentages Solve financial problems including simple interest/compound interest basic Solve problems involving rates of pay and unit pricing Problems involving speed/distance/time Simplify expressions by collecting like terms	Calculate the volume of a regular prism Calculate the volume of a cylinder and sphere Solve problems using Pythagoras' theorem in two dimensional figures Calculate the angle of a sector when the arc length and radius are known Problem solving questions involving area and volume	Distinguish between discrete and continuous data Plot a scatter diagram of bivariate data Interpret a scatter diagram using understanding of correlation (strong negative, strong positive etc) Find the modal class of set of grouped data Find the class containing the median of a set of grouped data
	Manipulate expressions by multiplying a single term over a bracket (the distributive law)	Know that graphs of functions of the form y = mx + c, x ± y = c and ax ± by = c are linear	Analyse and compare sets of data, appreciating the limitations of different statistics (mean, median, mode, range)

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	Simplify expressions by expanding, and gathering like terms Substitute integers and fractions into expressions and formulae (positive and negative) Solve basic linear equations Form a general rule for linear sequence Continue linear and nonlinear number sequences Recognise quadratic sequence Change the subject of a formula Solve linear equations with the unknown on both sides when the equation involves brackets Multiply two linear expressions of the form $(ax \pm b)(cx \pm d)$ Expand the expression $(x \pm a)^2$, and simplify Factorise an algebraic expression by taking out common factors (HCF and grouping)	Solve problems based on a linear graph Graph and identify linear equations in the form y=mx+c Find the gradient of a straight line on a unit grid Plot graphs of functions of the form y = mx ± c and ax ± by = c Recognise that the point of intersection of two graphs corresponds to the solution of a connected equation Solve problems involving two simultaneous equations and interpret the solution graphically Solve real life application of linear equations problems	List outcomes of an event systematically Calculate probability of basic/combined events (AND/OR RULES) Calculate probabilities using a sample spaces (2 way table, tree diagram, systematic listing) Use a tree diagram to solve problems involving independent combined events Find probabilities from real life scenarios
MVD 2 (Vear 0)	Solve simultaneous equations and interpret the solution (in the form y=mx+c) Recognise that the point of intersection of two graphs corresponds to the solution of a connected equation	Unit Title(s) Shape and Space: Visualizing	Linit Title(s) Eact or Eiction: What are the
WITP 5 (Tedi 9)	Unknown	Algebra	chances?
	Key concept: Logic	Key concept: Form; Relationships	Key concept: Connections; Logic
	Global Context: Orientation in Time and Space; Scientific and Technical Innovation	Global Context: Fairness and Development; Orientation in Time and Space.	Global Context: Fairness and Development
	Topics covered: Laws of indices (excluding negative and fractional) Use standard form to write large numbers/small numbers Solve problems involving ratio in a real-life context (such as those involving conversion,	Topics covered: Find the area and circumference of a circle Area and Perimeter of composite shapes including circles Know and solve problems using the properties and definitions of triangles Use knowledge of	Topics covered: Choose appropriate graphs or charts to represent data, and interpret correctly Construct frequency tables Calculate the mean/mode and median from a frequency table Calculate mean, mode, and median from a

comparison, mixing)	alternate/corresponding/vertically opposite	set of data
Round numbers to significant figures	angles to calculate missing angles	Calculate the IQR
Round numbers to decimal places	Recognise and use nets of cubes, cuboids,	Find the median from a frequency table
Identify the minimum and maximum values	and cylinders	Construct stem and leaf diagram
of an amount that has been rounded (to	Identify congruent triangles	Analyse and compare sets of data,
nearest x, x d.p., x s.f.)	Know and use the criteria for triangles to be	appreciating the limitations of different
Use inequalities to describe the range of	congruent (SSS, SAS, ASA, RHS)	statistics (mean, median, mode, range)
values for a rounded value	Solve problems involving similar triangles	Interpret a scatter diagram using
Add/subtract/multiply/divide numbers	(basic enlargements only)	understanding of correlation
written in standard form	Explore and utilise basic trigonometric ratios	Construct and interpret histograms for
Law of indices (including negative and	Solve for unknown sides and angles using	grouped data with equal class intervals
fractional)	trigonometric ratios	Construct a line of best fit on a scatter
Direct Proportion including graph and table	Problem solving questions involving area and	diagram and use the line of best fit to
Classifying according to number systems (N,	volume	estimate values
Z, Q, etc.)	Problems solving using Pythagoras and ratios	Construct box and whisker plot
Inverse Proportion including graph and table		Calculating percentiles
Solve problems involving direct and inverse	Identify midpoint of line formally using the	Making inferences about populations from
proportions	formula	data sets
Solve problems involving mass, density etc.	Identify distance of a line formally using the	
(using triangle)	formula	Work out theoretical probabilities for events
	Identify slope of line formally using the	(number of successes/total number of
Simplifying expressions	formula	outcomes)
Solve linear equations with the unknown on	Use the form y = mx + c to identify parallel	Apply the fact that the sum of probabilities
both sides when the equation involves	and perpendicular lines	for all outcomes is 1
brackets	Find the equation of a line through one point	Calculate probability of basic combined
Finding nth term of linear sequence	with a given gradient	events (AND/OR RULES)
Continue linear and nonlinear number	Find the equation of a line through two given	Use a tree diagram to solve problems
sequences	points	involving independent combined events
Change the subject of a formula		Calculate the probabilities of dependent
Multiply two linear expressions of the form		combined events
$(ax \pm b)(cx \pm d)$		Use a tree diagram to solve complex
Factorise an algebraic expression by taking		problems involving independent combined
out common factors (HCF and grouping)		events
Form a general rule for quadratic sequences		Use a tree diagram to solve complex
Solve simultaneous equations and interpret		problems involving dependent combined
the solution		events
Recognise that the point of intersection of		Probability of mutually exclusive and
two graphs corresponds to the solution of a		combined events

	connected equation Solve a simple linear inequality in one variable with unknowns on one side Solve a complex linear inequality in one variable and sketch solution set on a number line Factorise and solve a quadratic expression of the form x ² + bx and x ² + bx + c Sketching/Identifying a quadratic equation using roots Using the Quadratic Formula		Understand that relative frequency tends towards theoretical probability as sample size increases Solving advanced tree diagram questions
MYP 4 (Year 10)	Unit Title(s) All About Number; Solving the Unknown	Unit Title(s) Shape and Space; Patterns in the World around us	Unit Title(s) Fact or Fiction; What are the chances?
	Key concept: Logic	Key concept: Form; Relationships	Key concept: Connections; Logic
	Global Context: Orientation in Time and Space; Scientific and Technical Innovation	Global Context: Globalization and Space.	Global Context: Fairness and Development
	Topics covered:	Topics covered:	Topics covered:
	Direct Proportion problem solving	Angle facts (alternate, corresponding etc)	Constructing and interpreting graphs
	Set notation and Venn Diagram notation	Area and perimeter of basic 2D shapes	Types of data
	Drawing and interpreting Venn diagrams	(including circles using degrees)	Calculating the mean, median and mode, and
	Using Venn diagrams to solve problems in	Congruent and similar triangles	choosing the best measure of central
	real-life contexts	Calculate the surface area of cones, spheres,	tendency
	Precentage profit/loss/error, solving original	and pyramids (All formulae from booklet)	Measures of spread (range)
	value questions	Find the volume of cones, spheres, and	Stem and leaf plots
	Inverse Proportion problem solving	pyramids (All formulae from booklet)	Calculating the interquartile range
	Simple interest and Compound interest	Area and perimeter of composite shape	Box and Whisker plots
	caluclations	involving arcs and circles	Comparing data sets
		Problem solving using the area of a	Finding the mean,mode,median from
	Appreciation and Depreciation of real life	sector/length of an arc (degrees only)	grouped continuous data
	events	Using the Theorem of Pythagoras	Calculations with cumulative frequency
	Following Algorithms	Problem solving Trigonometric ratios in right	Interpreting correlation and finding line of
	Solving linear equalities and displaying	angled triangles (2D only)	best fit algebraically
	solution on number line	Solve practical word problems involving right	
	Solving equations involving algebraic	angled triangles, using trigonometric ratios	Work out theoretical probabilities for events
	fractions	(2D only)	(number of successes/total number of
	Solving Quadratic Equations algebraically and	Problem solving using trigonometric	outcomes)
	graphically (and using formula)	ratios/pythagoras etc. (2D and 3D shapes)	Apply the fact that the sum of probabilities

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	Solving simultaneous equations algebraically	Predicting the next term in a number	for all outcomes is 1
	and graphically	sequence (linear, quadratic, triangular,	Calculate probability of basic combined
	Solving simultaneous equations, 1 linear, 1	Fibonacci)	events (AND/OR RULES)
	non-linear	Finding and justifying or proving general	Use a tree diagram to solve problems
		rules/ formulae for linear sequence	involving independent combined events
		Finding and justifying or proving general	Interpreting experimental probability
		rules/ formulae for quadratic sequence	Use of sample spaces
		Finding a constant of proportionality. and	theoretical probability
		setting up equations/rules	Calculating probabilities of independent
		Graphing direct and inverse relationships	events, mutually exclusive events and
		Problem solving using direct and inverse	combined events
		relationships	Solving problems using tree diagrams and
		Using sequences to solve real life problems	Venn diagrams
MYP 5 (Year 11)	Unit Title(s) The Circle, Functions		
	Key concept: Logic; Aesthetics and		
	Connections		
	Global Context: Orientation of Time and		
	Space; Scientific and Technical Innovation		
	Topics covered:		
	The linear function, f(x) = mx + c, its graph,		
	gradient and y-intercept		
	Parallel and perpendicular lines and the		
	relationships between their gradients		
	Determining the range, given the domain		
	Equation of a line formula		
	Slope of a line formula		
	Distance of a line formula		
	Describing transformed linear, quadratic,		
	exponential, and sine and cosine functions		
	Example: $f(x) = a (x - h)2 + k **$		
	Graphing different types of functions (linear,		
	quadratic, exponential) and understanding		
	their characteristics		
	Translating, reflecting and dilating functions		
	Problem solving involving circumference and		
	area of circles		

Angle in a semi-circle theorem	
Cords of a circle theorem	
Radius-tangent theorem	
Tangents from an external point theorem	
Angle at the centre theorem	
Angles subtended by the same arc theorem	
Angle between a tangent and a chord	
Opposite angles of a cyclic quadrilateral	
theorem	
Problem solving using circle theorems	