Hanley Castle High School curriculum outline for parents: **Maths**



		Autumn Term		Spring Term		Summer Term	
	<u>Topic</u>	Exploring FDP	Calculating part 2	Visualising and constructing	Proportional reasoning	Calculating fractions,	Presentation of Data
	Big question /	Convert between terminating	Apply the four operations with	Use conventional terms and	use ratio notation, including	decimals and	Construct and interpret
	Overview	decimals and fractions.	negative numbers.	notation for geometry.	reduction to simplest form.	<u>percentages</u>	graphs.
	overview.					Use multiplicative reasoning	
		Numbers and the number	Checking, approximating	Investigating properties of		to interpret percentage	
		<u>system</u>	and estimating	<u>shapes</u>	Measuring space	change.	Measuring data
		Use positive integer powers and	Check calculations using	Investigate the properties of 3D	Measure accurately		Analyse and compare sets of
		associated real roots.	inverse operations.	shapes.	Convert between measures.	Solving equations and	data
						inequalities	
		Calculating part 1	Counting and comparing	Algebraic proficiency:		Solve linear equations in one	
		Apply the four operations,	order positive and negative	tinkering		unknown.	
		including formal written	integers, decimals and	Simplify and manipulate			
		methods, to integers and	fractions.	expressions by collecting like		Calculating space	
		decimals.		terms.		Calculate surface area of	
						cubes and cuboids.	
				Exploring fractions,			
				decimals and percentages			
				Write a quantity as a fraction or			
				percentage of another.	<u> </u>		
	Disciplinary	Reasoning and problem	Problem solving involving	Reasoning and problem-	Developing proportional	Forming and solving	Representing and
Year	knowledge/skills	solving with numbers and	checking and comparing.	solving involving shapes,	reasoning skills.	equations or calculating	interpreting data - using
7		calculations.		algebra and FDP.		areas.	measures of spread and
'							averages to analyse data.
Stage 7	New vocabulary	Terminating	Negative number	Edge, Face, Vertex (Vertices)	Ratio	Multiplier	Discrete data
	,	Recurring	Directed number	Plane	Proportion	Increase, decrease	Pictogram, Symbol, Key
		Simplify, Cancel	Improper fraction		Compare, comparison		Frequency
			Power	Parallel	Part	Equation	Table, Frequency table
		LCM	Indices	Perpendicular	Simplify	Operation	Time graph, Time series
		HCF Power	Roots	Regular polygon	Cancel Lowest terms	Solve	Bar-line graph, Vertical line chart
		Square and cube root	Approximate (noun and verb)	Almahaa	Unit	Solution	Scale, Graph
		Triangular number, Square	Round	Algebra Expression, Term, Formula	- Oille	Brackets Symbol	Axis, axes
		number, Cube number, Prime	Decimal place	(formulae), Equation, Function,	Tonne, kilogram, gram,	Substitute	ANIS, UNCS
		number	Solution	Variable	milligram	Substitute	Average
		Linear sequence, Arithmetic	Answer	Mapping diagram, Input,	Litre, millilitre	Formula, formulae	Spread
		sequence	Estimate (noun and verb)	Output	Hour, minute, second	Length, breadth, depth,	Consistency
			Order of magnitude	Represent	Inch, foot, yard	height, width	Mean
		Operation	Accurate, Accuracy	Substitute	Pound, ounce		Median
		Inverse	Significant figure	Evaluate	Pint, gallon		Mode
				Like terms	Line segment		Range
			Integer	Simplify / Collect			Measure
			Numerator				Data
			Denominator	Proper fraction			Statistic
				Vulgar fraction			Statistics
							Approximate Round
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