			a and herebal				(62								
Mathematics	Curriculum Intent: The year 8 curriculum will consolidate and build on the key themes studied at KS2 and during Year 7. Students will study all aspects of mathematics –														
Year Light	Nomber, Agebra, Geometry and Data. Key concepts will be revisited through retrieval practice, and then developed at a level appropriate to the ability of each students.													Jents.	
	New learning will be carefully spaced and regu	ar consol	idation task	s will enar	ble retenti	on of key k	nowied	ige. Keys	KIIIS WIII DE	develope	a with rep	eated prac	tice and	ן 1115-2	
	frequent problem solving activities requiring st	udents to	lidentity the	e skills nee	eded to co	mplete the	task. :	students v	vill develop	understa	nding of Ke	ey concept	s and w	ili be	
	given the opportunity to demonstrate this in a	range of													
	Ierm 1 & 2		Term 3 &	1erm 3 & 4						Term 5 & 6					
Knowledge	Number 1:			Number 2:						Number 3:					
	Rounding to significant figures			LCM and HCF using prime factors						Recurring decimal conversions					
	 Bounds of errors Laws of indices 			Use of venn diagrams						Developing ratio skills					
				Developing percentages skills						Exchange rate calculations					
	Standard form	Simple and compound interest						Proportion, including graphically							
	 Simplifying surds 	Reverse percentages						Direct proportion, including algebraically							
	Algebra 1:	Algebra 2	Algebra 2: Algebra 3:												
	 Developing algebraic skills 	 Developing skills with algebraic equations 						Straight lines in four quadrants							
	 Working with terms and expressions 	 Solving equations with fractions 						Plotting linear graphs							
	 Expanding double brackets 	Forming and solving equations						Gradient and y-intercept							
	 Expanding triple brackets 	Rearranging formulae						Equation of a straight line							
	Factorising quadratic expressions	 Simultaneous equations 						Plotting quadratic graphs							
	Geometry & Data 1:	Geometry & Data 2:						Geometry & Data 3:							
	• Area and perimeter of compound sha	 Probability scales and language 						Developing angles skills							
	Area and circumference of circles	 Probability of a single event Listing outcomes Expectation 						Bearings using angle facts							
	• Volume of prisms, pyramids & sphere							 Angles in polygons, interior and exterior 							
	Surface area of prisms							Right-angled trigonometry							
	Pythagoras	 Tree diagrams and venn diagrams 						Similarity and congruence							
Understanding	Completion of problem solving activities and	Completion of problem solving activities and challenges to develop application of knowledge and skills						Completion of problem solving activities and							
	challenges to develop application of knowledge							challenges to develop application of knowledge and							
	skills							skills							
Skills		D0	S			S		b0 (0	S			S		b0 (0	
		ving	s sub	.0	ent	/ ipe		ving	⊗ ü	.0	ent	/ ipe		ving	
	Shar Shar Shar I lue	Solv	oer Jue rati	oer Rat	em e	etry Sha	tics	Solv gati	oer Ilue rati	oer Rat	eme nits	etry Sha	tics	Solv gati	
	tist & Transford	E &	n h Va	a la	n n	E a	atis	stig	umt Va	ar s	un D	w w	tis	stig	
	Stess 88 DP NL NL	ble		D N L	eas &	Geo	Sta	ble	I C S	D N	eas &	Geo	Sta	ble	
		Pro	Fou	ш.	Σ	Ang		Pro & L	Fou	ш	Σ	Ang		Pro & II	
Interlocuing	Pequiprion consolidation of all prior teaching		Pogular o	prolidati	on of all m	ior toachir	a			oncolidati	on of all ar	ior toach in	<i>a</i>		
Interleaving	Regular consolidation of an prior teaching	Reviewing skills for future learning						Reviewing skills for future learning							
	Liso of Mathchay 10 and 20 question starters		Reviewing skills for future learning						Lico of Mathebox 10 and 20 question starters						
Assessment	Low Stakes' KDI task after each section of wor	(Low Stak	(Low Stakes' KPI task after each section of work						1 ow Stakes' KPI task after each section of work						
Assessment	Formal written associated at and of Term 2	Eormal w	LOW SLOKES NPI LOSK diler eduli section of WORK						Low Stakes KPI task after each section of Work						
	Formal written assessment at end of Term 2	Formal written assessment at end of Term 4						End of Year Assessment during Term 6							