Building Block 5 ≈ KS3-4 bridging year (Y9)						
Half-Term	Topic/Content	Skills	Personal Development			
Autumn 1	Reasoning with Numbers	 Revisit types of number- extend to include rational and irrational Revisit Arithmetic Revisit Fraction arithmetic Extend knowledge of HCF and LCM Revisit Standard form 	Communication Problem Solving Life Skills Communication Problem Solving Life Skills Staying safe Communication Problem Solving Life Skills Staying safe			
	Mathematics and money	 Explore financial mathematics including; Bills and bank statements Interest Unit pricing (best buys) 				
	Using percentages	 Revisit percentage increase and decrease- in contexts Use percentages greater than 100% Find percentage changes Use multipliers in a variety of contexts Solve reverse percentage problems 				
Assessment						
Autumn 2	Straight line graphs	 Interpret straight line graphs Find and use the equation of a straight line Reduce equations to the form y=mx+c Compare to linear sequences and finding the nth term 	Communication Problem Solving			
	Forming and solving equations and inequalities	 Revisit and extend to equations and inequalities with unknowns on both sides, using contexts- angles probability area etc Change the subject of a formula 	Communication Problem Solving			
	Testing conjectures	 Test conjectures in a wide range of contexts Sums and products of odd and even numbers Is a given number in a sequence 	Communication Problem Solving Life Skills			

		• Is this shape?	Self-Awareness
		 Are these lines parallel? 	Self-motivation
		What would happen if	
Assessment			
Spring 1	3D shapes	 Understand the language of faces, edges and vertices Know the common prisms and non-prisms Identify 2D and 3D shapes Work out the surface area and volume of cuboids and cylinders Work out the volume of any prism Work out the missing lengths given area/volume 	Communication Problem Solving Life Skills Staying safe Teamwork
	Constructions and congruency	 Construct 3D shapes from nets and construct the net of a 2D shape Construct and use scale drawings Construct perpendiculars and bisectors Understand congruency Explore congruency via construction 	Communication Problem Solving Life Skills Staying safe
Assessment			
Spring 2	Enlargement and similarity	 Enlarge shapes by a positive scale factor Calculate the lengths of sides in similar shapes Understand what makes shapes similar Understand connection of scale factors with area and volumes 	Communication Problem Solving Life Skills Staying safe
	Solving ratio and proportion problems	 Direct proportion problems and graphs Conversion graphs Solve ratio problems given the whole or part and put into form 1:n Simple inverse proportion Unit pricing problems (best buys) 	Communication Problem Solving Life Skills Self-Awareness
	Rates	 Work with speed, distance and time Solve problems using density 	Communication Problem Solving

		Work with compound units	Life Skills
Assessment			1
Summer 1	Geometric deduction	 Revisit angle rules, including within special quadrilaterals Find angles using algebraic methods Use chains of reasoning to evaluate angles 	Communication Problem Solving
	Rotation and Translation	 Identify the order of rotational symmetry of a shape Find the results of rotating shapes Translate points and shapes given a vector Understand variance and invariance in the context of transformations 	Communication Problem Solving Life skills
	Pythagoras Theorem	 Identify the Hypotenuse of a right angles triangle Determine whether a triangle is right angled Calculate missing angles 	Communication Problem Solving
Assessment			
Summer 2	Probability	 Experimental probability and relative frequency Expected number of outcomes Independent events 	Communication Problem Solving Life Skills Staying safe
	Algebraic representations	 Drawing and reading from quadratics Interpreting other graphs- reciprocal piece wise Representing inequalities 	Communication Problem Solving
Assessment			

Rationale –

BB3-5

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BB6ab

As above, plus:

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