Subject: Maths	
	Maths Tier 1-2
KS4 target direction	
Advanced *Students must achieve competence in all objectives in good progress too to be judged as making exceptional progress.*	• Demonstrate fluency in mathematical concepts taught • Reason mathematically – developing an argument, justification or proof using mathematical language • Apply mathematical concepts to a variety of routine and non-routine problems
Secure *Students must achieve competence in all statements before being judged secure.*	• Confident use of the four operations +, -, x, ÷ • Identify and use factors, multiples, prime and square numbers • Understand negative numbers as position on a number line; use negative numbers in context • Measure and draw lines to the nearest millimetre • Find the perimeter and area of rectangular shapes (by counting squares) • Describe and generate terms of a simple sequence given a rule
Developing	4 or more objectives met.
Beginning	Fewer than 4 objectives met.

Subject: Maths	
	Maths Tier 3
KS4 target direction	
Advanced *Students must achieve competence in all objectives in good progress too to be judged as making exceptional progress.*	• Demonstrate fluency in mathematical concepts taught • Reason mathematically – developing an argument, justification or proof using mathematical language • Apply mathematical concepts to a variety of routine and non-routine problems
Secure *Students must achieve competence in all statements before being judged secure.*	• Order, add and subtract integers (including negatives) • Calculate perimeters and areas of shapes made from rectangles • Use the order of operations, including brackets. • Recognise and use multiples, factors, primes, squares, square roots, highest common factors and lowest common multiples in simple cases • Generate and describe sequences from patterns or practical contexts • Visualise 3D shapes and deduce some of their properties
Developing	4 or more objectives met.
Beginning	Fewer than 4 objectives met.

Subject: Maths	
	Maths Tier 4
KS4 target direction	
Advanced *Students must achieve competence in all objectives in good progress too to be judged as making exceptional progress.*	• Demonstrate fluency in mathematical concepts taught • Reason mathematically – developing an argument, justification or proof using mathematical language • Apply mathematical concepts to a variety of routine and non-routine problems
Secure *Students must achieve competence in all statements before being judged secure.*	• Generate and describe terms of a linear sequence using term-to-term and position-to-term rules • Add, subtract, multiply and divide integers; order of operations • Use multiples, factors, common factors, highest common factor, lowest common multiple and primes, including prime factorisation • Use squares, square roots, cubes and cube roots, and index notation • Derive and use formulae for the area of a triangle, parallelogram and trapezium; compound shapes • 3D shape: volume and surface area of cuboids; nets, plans and elevations
Developing	4 or more objectives met.
Beginning	Fewer than 4 objectives met.

Subject: Maths	
	Maths Tier 5
KS4 target direction	
Advanced *Students must achieve competence in all objectives in good progress too to be judged as making exceptional progress.*	• Demonstrate fluency in mathematical concepts taught • Reason mathematically – developing an argument, justification or proof using mathematical language • Apply mathematical concepts to a variety of routine and non-routine problems
Secure *Students must achieve competence in all statements before being judged secure.*	• Know and use the formulae for the circumference and area of a circle • Calculate the surface area and volume of right prisms. • Use squares, positive and negative square roots, cubes and cube roots; index laws • Use the prime factor decomposition of a number • Use linear expressions to describe the nth term of a sequence • Generate points and plot graphs of linear functions; gradients of a line
Developing	4 or more objectives met.
Beginning	Fewer than 4 objectives met.

Subject: Maths	
	Maths Tier 6
KS4 target direction	
Advanced *Students must achieve competence in all objectives in good progress too to be judged as making exceptional progress.*	• Demonstrate fluency in mathematical concepts taught • Reason mathematically – developing an argument, justification or proof using mathematical language • Apply mathematical concepts to a variety of routine and non-routine problems
Secure *Students must achieve competence in all statements before being judged secure.*	• Derive and use formulae for lengths of arcs, and areas of sectors • Derive and use formulae for surface area and volume of prisms • Construct and solve linear equations and simple linear inequalities to represent real-life situations or mathematical problems • Understand laws of indices and negative, fractional and zero powers; standard form • Generate points in all four quadrants and plot the graphs of the linear functions; recognise that equations of the form y=mx+c correspond to straight-line graphs; parallel and perpendicular lines • Construct and solve a pair of simultaneous linear equations
Developing	4 or more objectives met.
Beginning	Fewer than 4 objectives met.

Subject: Maths	
	Maths Tier 7
KS4 target direction	
Advanced *Students must achieve competence in all objectives in good progress too to be judged as making exceptional progress.*	• Demonstrate fluency in mathematical concepts taught • Reason mathematically – developing an argument, justification or proof using mathematical language • Apply mathematical concepts to a variety of routine and non-routine problems
Secure *Students must achieve competence in all statements before being judged secure.*	• Solve simultaneous linear equations • Derive and use formulae for lengths of arcs, and areas of sectors • Understand and extend index laws, including negative and fractional indices • Solve problems involving surds; expand and simplify expressions containing surds • Construct and solve linear inequalities graphically • Derive and use formulae for surface area and volume of a cylinder and the volume of cones, pyramids and spheres
Developing	4 or more objectives met.
Beginning	Fewer than 4 objectives met.

Subject: Maths	
	Maths Tier 8-9
KS4 target direction	
Advanced *Students must achieve competence in all objectives in good progress too to be judged as making exceptional progress.*	• Demonstrate fluency in mathematical concepts taught • Reason mathematically – developing an argument, justification or proof using mathematical language • Apply mathematical concepts to a variety of routine and non-routine problems
Secure *Students must achieve competence in all statements before being judged secure.*	• Understand and use index notation and index laws, including integer, fractional and negative indices • Manipulate expressions involving surds; rationalise fractions with surds • Solve simultaneous equations • Find the nth term of linear and quadratics sequences • Calculate the area and arc length of a sector of a circle • Calculate the volume and surface area of pyramids and cones; solve problems involving more complex shapes
Developing	4 or more objectives met.
Beginning	Fewer than 4 objectives met.