

Year 7 Big Picture – Mathematics

Autumn 1 8 weeks	Autumn 2 7 weeks	Spring 1 6 weeks
Content 7.01 Numerical Skills 7.02 Order of operations 7.03 Introduction to Algebra	Content 7.04 Primes, Factors and Multiples 7.05 Expanding and Factorising 1 7.06 Addition and Subtraction 7.07 Perimeter	Content 7.08 Mean 7.09 Multiplication and Division 7.10 Area of Triangles and Quadrilaterals
Assessment Objectives This is the knowledge, application and skills assessed by the Big Test: - Understand and use place value for decimals - Calculate with negative numbers - Estimate calculations by rounding. - Solve calculations requiring understanding of B-I-DM-AS (know that the inverse of squaring is 'square rooting') - Introduce the concept of algebra - Simplify expressions and manipulate expressions through simple one step rearranging - Substitute positive and negative integers into expressions - Solve simple one step equations <u>Unit test (marked by teacher)</u> Unit test 7.02 <u>Unit test (Self-assessment)</u> Unit test 7.03 <u>Feedforward and Intervention</u> Students to complete the questions where they made errors (in purple pen)	Assessment Objectives This is the knowledge, application and skills assessed by the Big Test: - Use the concepts and vocabulary of prime numbers, factors (or divisors), multiples, common factors, common multiples, highest common factor, lowest common multiple - Simplify and manipulate algebraic expressions to maintain equivalence by multiplying a single term over a bracket or by taking out common factors - Use Addition and Subtraction, including formal written methods, applied to integers & decimals - Calculate and solve problems involving perimeters of rectangles and compound shapes (not circles) - Converting metric units of length <u>Unit test (marked by teacher)</u> Unit test 7.05 <u>Unit tests (Self-assessment)</u> Unit tests 7.04, 7.07 <u>Feedforward and Intervention</u> Students to complete the questions where they made errors (in purple pen)	Assessment Objectives This is the knowledge, application and skills assessed by the Big Test: - Describe, interpret and compare observed distributions of a single variable through the use of the mean - Use Multiplication and Division, including formal written methods, applied to integers & decimals - Derive and apply formulae to calculate and solve problems involving area of triangles, rectangles and parallelograms - Converting metric units of area <u>Big test (marked by teacher)</u> Big Test 1 <u>Unit tests (Self-assessment)</u> Unit tests 7.08, 7.10 <u>Feedforward and Intervention</u> Students to complete the questions where they made errors (in purple pen)
Year 7 Baseline Test ATL Data capture	ATL Data capture	Big Test 1 Data capture – Big test % and ATL

Year 7 Big Picture – Mathematics

Spring 2 6 weeks	Summer 1 5 weeks	Summer 2 7 weeks
Content 7.11 Fraction Manipulation 7.12 Adding and Subtracting fractions 7.13 Comparing and Ordering fractions 7.14 Fractions of amounts	Content 7.15 Polygons 7.16 Angles 7.17 Coordinates	Content 7.18 Time EOY Revision
Assessment Objectives This is the knowledge, application and skills assessed by the Big Test: - Express one quantity as a fraction of another, where the fraction is less than 1 and greater than 1 - Use addition and subtraction, including formal written methods, applied to proper and improper fractions, and mixed numbers - Compare and order fractions by creating common denominators - Interpret fractions as operators	Assessment Objectives This is the knowledge, application and skills assessed by the Big Test: - Derive, describe and illustrate properties of triangles, quadrilaterals and other plane figures [for example: describe, sketch and draw regular polygons, and other polygons that are reflectively and rotationally symmetric equal lengths and angles] using appropriate language and technologies - Apply the properties of angles at a point, angles at a point on a straight line, angles in polygons, vertically opposite angles - Read and plot coordinates in all 4 four quadrants and use coordinates to develop algebraic relationships - Find midpoints - Understand how coordinates link to basic graphs of $y=a$, $x=a$, $y=x$ and $y=-x$	Assessment Objectives This is the knowledge, application and skills assessed by the Big Test: - Using clocks - Convert between analogue and digital time - Calculate with time and use timetables and use calendars - Convert units of time - EOY Revision programme- Revision of key topics - Preparation for UL tests
<u>Unit test (marked by teacher)</u> Unit test 7.12	<u>Unit test (marked by teacher)</u> Unit test 7.16	<u>EOY test (marked by teacher)</u> EOY Paper 1 and Paper 2
<u>Unit tests (Self-assessment)</u> Unit tests 7.11, 7.13	<u>Unit tests (Self-assessment)</u> Unit tests 7.15, 7.17	<u>Unit tests (Self-assessment)</u> Unit test 7.18
<u>Feedforward and Intervention</u> Students to complete the questions where they made errors (in purple pen)	<u>Feedforward and Intervention</u> Students to complete the questions where they made errors (in purple pen)	<u>Feedforward and Intervention</u> Students to complete the questions where they made errors (in purple pen)

Year 7 Big Picture – Mathematics

ATL Data capture	ATL Data capture	Year 7 UL EOY test (Big Test 2) Data capture – Big test and ATL
------------------	------------------	--