Mathematics- Year 7 Curriculum

Content (Intent)	**Links to prior learning**	**Skills and Assessment (Implementation)**	**Expected Learning Outcomes (Impact)**
Term 1 and 2 (sets 1-4, all students) Whole Numbers and Decimal Statistics Measures Perimeter and Area Expressions and Algebra Fractions, Decimals and Percentages Angles and 2D Shapes Graphs	Consolidate and continue the learning from Primary schools. These topics included re Year 6 program of study; Number-number place value Number-addition, subtraction, multiplication and division Number-fractions including decimal and percentages Ration and Proportion Algebra Measurement Geometry-properties of shapes Geometry-positions and direction Statistics	Entrance Examination based of work from Year 6. (baseline test from Edexcel) Essentials test based on Number facts Combined End of Unit assessment based on work covered	Calculate with integers and decimals. Represent data with charts and graphs. Calculate summary statistics. Convert measures. Work with 2D shapes. Represent and manipulate variables. Convert between fractions, decimals and percentages. Find fractions and percentages of quantities. Measure and draw angles. Solve angle problems. To plot coordinates and graphs.

Mathematics-Year 7 Set 1-Curriculum Terms 3-6

Content (Intent)	**Links to prior learning**	**Skills and Assessment (Implementation)**	**Expected Learning Outcomes (Impact)**
Term 3 Graphs Whole Number Calculations Transformation and Symmetry Equations	Consolidate and continue the learning from Primary schools. These topics included re Year 6 program of study; Number-number place value Number-addition, subtraction, multiplication and division Number-fractions including decimal and percentages Ration and Proportion Algebra Measurement Geometry-properties of shapes Geometry-positions and direction Statistics	Essentials Assessments based on Number work Combined End of Unit assessment based on work covered	Draw and evaluate real life graphs. Problem solve through multiplication and division. Perform and describe transformations. Solve and set up equations.
Term 4 Factors and Multiples Construction and 3D shapes Sequences	Consolidate and continue the learning from Primary schools. These topics included re Year 6 program of study; Number-number place value Number-addition, subtraction, multiplication and division Number-fractions including decimal and percentages Ration and Proportion Algebra Measurement Geometry-properties of shapes Geometry-positions and direction	Essentials Assessments based on Number work Combined End of Unit assessment based on work covered	Use factors multiples and prime numbers. Construct shapes, use scale drawings, explore 2D views of 3D shapes. Evaluate sequences.

	Statistics		
Term 5 Decimal Calculations Ratio and Proportion Probability	Consolidate and continue the learning from Primary schools. These topics included re Year 6 program of study; Number-number place value Number-addition, subtraction, multiplication and division Number-fractions including decimal and percentages Ration and Proportion Algebra Measurement Geometry-properties of shapes Geometry-positions and direction Statistics	Essentials Assessments based on Number work Combined End of Unit assessment based on work covered	Multiply and divide decimals. Solve ratio and proportion problems. Use, record and describe frequencies.
Term 6 Whole Number and Calculations Real Life Mathematics	Consolidate and continue the learning from Primary schools. These topics included re Year 6 program of study; Number-number place value Number-addition, subtraction, multiplication and division Number-fractions including decimal and percentages Ration and Proportion Algebra Measurement Geometry-properties of shapes Geometry-positions and direction Statistics	Essentials Assessments based on Number work Combined End of Unit assessment based on work covered	Solve problems involving factors, multiples, primes and roots. Solve everyday maths problems.

Mathematics-Year 7 Set 2 and 3-Curriculum Terms 3-6

Content (Intent)	**Links to prior learning**	**Skills and Assessment (Implementation)**	**Expected Learning Outcomes (Impact)**
Term 3 Graphs Whole Number Calculations Transformations Equations	Consolidate and continue the learning from Primary schools. These topics included re Year 6 program of study; Number-number place value Number-addition, subtraction, multiplication and division Number-fractions including decimal and percentages Ration and Proportion Algebra Measurement Geometry-properties of shapes Geometry-positions and direction Statistics	Essentials Assessments based on Number work Combined End of Unit assessment based on work covered	Draw and evaluate real life graphs. Problem solve through multiplication and division. Perform and describe transformations. Manipulate algebra and solve equations.
Term 4 Factors and multiples Construction and 3D shapes Sequences	Consolidate and continue the learning from Primary schools. These topics included re Year 6 program of study; Number-number place value Number-addition, subtraction, multiplication and division Number-fractions including decimal and percentages Ration and Proportion Algebra Measurement Geometry-properties of shapes Geometry-positions and direction	Essentials Assessments based on Number work Combined End of Unit assessment based on work covered	Use factors multiples and prime numbers. Construct triangles, use scale drawings, explore 2D views of 3D shapes. Find sequence rules and missing terms.

	Statistics		
Term 5 Decimal Calculations Ratio and Proportion Probability	Consolidate and continue the learning from Primary schools. These topics included re Year 6 program of study; Number-number place value Number-addition, subtraction, multiplication and division Number-fractions including decimal and percentages Ration and Proportion Algebra Measurement Geometry-properties of shapes Geometry-positions and direction Statistics	Essentials Assessments based on Number work Combined End of Unit assessment based on work covered	Multiply and divide decimals. Solve ratio and proportion problems. To record, describe and analyse frequencies.
Term 6 Whole Number and Decimals Everyday Mathematics	Consolidate and continue the learning from Primary schools. These topics included re Year 6 program of study; Number-number place value Number-addition, subtraction, multiplication and division Number-fractions including decimal and percentages Ration and Proportion Algebra Measurement Geometry-properties of shapes Geometry-positions and direction Statistics	Essentials Assessments based on Number work Combined End of Unit assessment based on work covered	Solve problems involving factors, multiples, primes and indices. Solve everyday maths problems.

Mathematics-Year 7 Set 4-Curriculum Terms 3-6

Content (Intent)	**Links to prior learning**	**Skills and Assessment (Implementation)**	**Expected Learning Outcomes (Impact)**
Term 3 Graphs Adding and Subtracting Transformation and Symmetry Equations	Consolidate and continue the learning from Primary schools. These topics included re Year 6 program of study; Number-number place value Number-addition, subtraction, multiplication and division Number-fractions including decimal and percentages Ration and Proportion Algebra Measurement Geometry-properties of shapes Geometry-positions and direction Statistics	Essentials Assessments based on Number work Combined End of Unit assessment based on work covered	Read real life graphs. Calculate by addition and subtraction. Identify properties of and perform transformations. Understand inverse operations and solve one step equations.
Term 4 Factors and Multiples Construction and 3D Shapes Sequences	Consolidate and continue the learning from Primary schools. These topics included re Year 6 program of study; Number-number place value Number-addition, subtraction, multiplication and division Number-fractions including decimal and percentages Ration and Proportion Algebra Measurement Geometry-properties of shapes Geometry-positions and direction	Essentials Assessments based on Number work Combined End of Unit assessment based on work covered	Use factors multiples and square numbers. Construct angles and triangles. Explore 3D shapes. Describe and use sequences.

	Statistics		
Term 5 Multiplying and dividing Ratio and Proportion Probability	Consolidate and continue the learning from Primary schools. These topics included re Year 6 program of study; Number-number place value Number-addition, subtraction, multiplication and division Number-fractions including decimal and percentages Ration and Proportion Algebra Measurement Geometry-properties of shapes Geometry-positions and direction Statistics	Essentials Assessments based on Number work Combined End of Unit assessment based on work covered	Multiply and divide integers. Solve ratio and proportion problems. Investigate probability.
Term 6 Whole Number and Decimals Everyday Mathematics	Consolidate and continue the learning from Primary schools. These topics included re Year 6 program of study; Number-number place value Number-addition, subtraction, multiplication and division Number-fractions including decimal and percentages Ration and Proportion Algebra Measurement Geometry-properties of shapes Geometry-positions and direction Statistics	Essentials Assessments based on Number work Combined End of Unit assessment based on work covered	Solve problems involving negative numbers, factors, multiples, primes and square numbers. Solve everyday maths problems.

Additonal features:

All units are cross referenced to KS2 teaching to ensure continuity.

KS2 topics will be re-visited to ensure that all year 7 students are secondary school ready!

Students who lack the KS2 skills and are unable to access the year 7 curriculum will continue to work on the KS2 schemes in parallel to the year 7 schemes of work These students will also be supported through the not secondary ready program at Newlands.

Each unit and each topic have a specific number of hours allocated to it.

Formative (deep marking/End of unit test) and summative assessment dates have been included to ensure students progress is accurately and timely measured.

A cross-curricular section is introduced to allow students to apply the knowledge gained in other contexts. E.g. science, D.T etc.

Reference to ICT; MyMaths, Kerboodle, mathsbot and mathsbox.