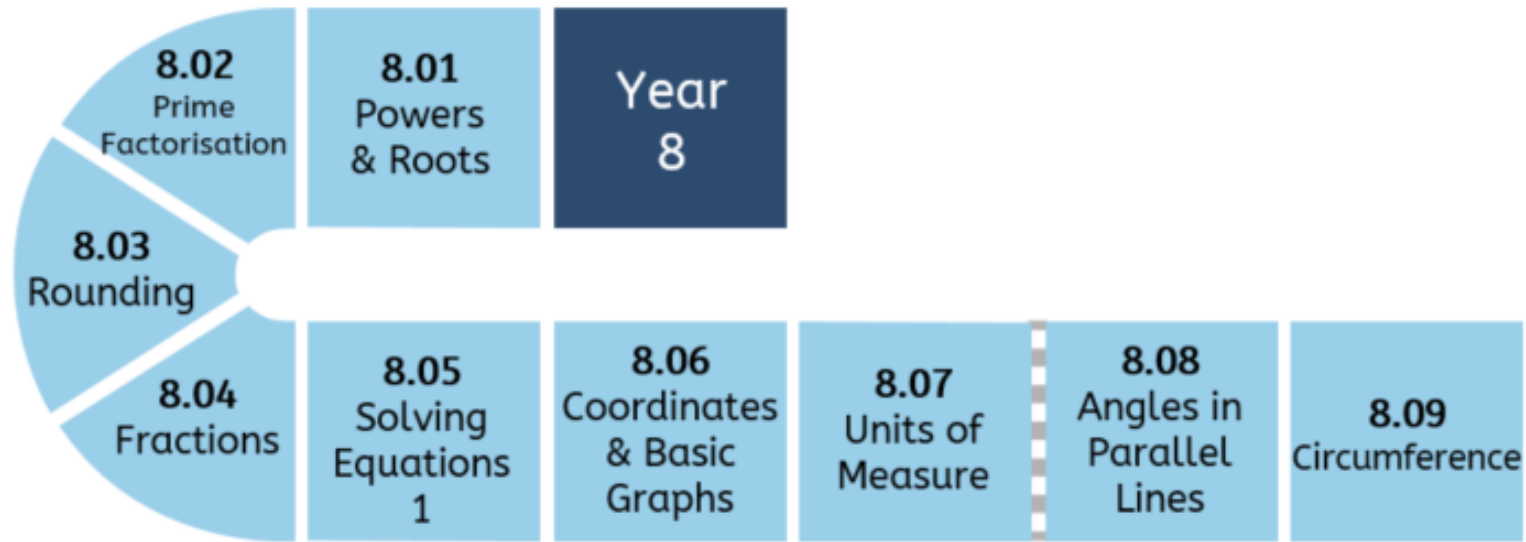




Holland Park School | *Year 8 Maths: Autumn Term*



Overview	Autumn Term Topics 8.01 – 8.09
Assessment	Fortnightly Topic Assessment
Key words	Multiple Factor Venn diagram Prime number Prime factor Square Lowest common multiple (LCM) Highest common factor (HCF) Algebraic expression Term Formula Substitute Integer Linear Simplify Product of Significant figures Estimate Approximate Calculate Work out Evaluate Numerator Denominator Improper Parallel Alternate Corresponding Co-interior

Topics	Key content	Sparx Clips	Knowledge Organiser link
8.01 Powers and Roots	Use integer powers and associated real roots (square, cube and higher), recognise powers of 2, 3, 4, 5 and distinguish between exact representations of roots and their decimal approximations	M135, M608	

8.02 Prime Factorisation	Use the concepts and vocabulary of prime numbers, factors (or divisors), common factors, prime factorisation, including using product notation and the unique factorisation property (HCF and LCM with large numbers taught in 9.04)	M322, M823, M108, M365, M227, M698	
8.03 Rounding	Round numbers and measures to an appropriate degree of accuracy [for example, to a number of decimal places or significant figures]	M111, M431, M994, M131, M878	
8.04 Fractions	Multiply and divide fractions and mixed numbers	M939, M410, M671, M601, M835, M931, M157, M197, M110, M265	
8.05 Solving Equations	Use algebraic methods to solve linear equations in one variable (including all forms that require rearrangement). Model situations or procedures by translating them into algebraic expressions or formulae and by using graphs	M707, M509, M387, M554, M813, M795, M531, M957	
8.06 Coordinates	Coordinates and developing algebraic relationships	M618, M622, M797	
8.07 Units of Measure	Use standard units of mass, length, time, money and other measures, including with decimal quantities	M892, M627, M515, M772, M530, M761, M728	
8.08 Angles in Parallel Lines	Understand and use the relationship between parallel lines and alternate and corresponding angles	M818, M163, M606, M351, M679, M393	
8.09 Circumference	Calculate and solve problems involving perimeters of 2-D shapes (including circles) and composite shapes	M595, M169	