ASHTON COMMUNITY SCIENCE COLLEGE: MATHS CURRICULUM



Year 8						
	Half term 1	Half term 2	Half term 3	Half term 4	Half term 5	Half term 6
Knowledge	Topic: ■ Plotting Graphs ■ Ratio and Proportion	Topic: Factors, Multiples and Primes Statistics	Topic: Probability 2D Shapes	Topic: ■ Money ■ Algebra	Topic: ■ Percentages	Topic: ■ 3D Shapes
Skills/ application of knowledge	 Plotting coordinates Plotting linear graphs Plotting non-linear graphs y = mx + c Drawing graphs Writing the equation of a straight line Using ratios Sharing into a ratio Map scales Proportion in real life contexts Direct proportion Indirect proportion 	 Different types of numbers Identify factors and multiples Prime numbers Prime factorisation of a number Highest Common Factor Lowest common multiple Collecting data Recording data Graphs/Charts 	 Probability Sample Space Diagram Venn Diagrams Tree diagrams Identifying 2D shapes Properties of shapes Symmetry Tessellations 	 Solve money problems Solve budget problems Best value for money Simplifying algebraic expressions Evaluating indices Laws of indices Expanding brackets Factorising expressions Forming algebraic expressions 	 Finding a percentage Percentage change Interest Comparing with percentages FDP 	 Properties of 3D Shapes Identify and creating nets of shapes Sketch 3D shapes
Links to prior learning	Substitution Fractions Algebra Equations Percentages Using Scales	Calculations Probability Averages	Statistics Averages 3D Shapes Area and Perimeter	Calculations Plotting Graphs Substitution	Fractions Decimals Percentages Ratio & Proportion Calculations	2D Shapes Area and Perimeter
assessment	Check-ins Check-outs	Check-ins Check-outs	Check-ins Check-outs	Check-ins Check-outs	Check-ins Check-outs	Check-ins Check-outs