REGENTS PARK
Community College

Regents Park Community College – Year 7 Maths Progress Pathway Descriptors		
Low Attaining Year 7 student	**Middle Attaining Year 7 student**	**High Attaining Year 7 student**
In number I can • Multiply and divide by a single digit. • Add and subtract up to two decimal places. • Multiply and divide by 10 and 100. • Find factors and multiples of numbers and square numbers. • Order decimals. • Round to the nearest whole number **In algebra I can** • Plot and identify coordinates in the first quadrant. • Simplify basic expressions. **In geometry I can** • Name common 2D and 3D shapes. • Calculate perimeters. • Find areas by counting squares. • I can use ruler and other scales for measurement. • I can make 3D models by joining faces and edges together. • I can reflect shapes in a mirror line. • Name types of angles	**In number I can** • Multiply and divide a 3 digit number by a 2 digit number. • Simplify fractions. • Add, subtract, multiply and divide fractions. • Find fractions and percentages of quantities. • Understand and use BIDMAS. • Use negative numbers in real life context. • Estimate using approximations. **In algebra I can** • Plot and identify coordinates in four quadrants. • Simplify expressions with more than one variable. • Expand a single bracket. • Substitute positive values into expressions. **In geometry I can** • Measure and draw angles to nearest degree. • Use formula for the area of a rectangle and triangle. • Covert between metric units • Calculate unknown angles in triangles, on a straight line and at a point. • I can find symmetry in 2D shapes.	**In number I can** • Calculate with whole numbers and decimals • Add, subtract, multiply and divide fractions with mixed numbers. • Use equivalent fractions, percentages and decimals. • Add and subtract using negative numbers. • Round to decimal places and significant figures. • Find HCF and LCM • Share using a given ratio **In algebra I can** • Simplify algebraic Expressions. • Expand brackets with indices. • Substitute values into expressions. • Solve one and two step equations. • Plot and draw straight ling graphs. • Find the nth term of a sequence. **I Geometry I can** • Calculate area of parallelograms and trapeziums. • Calculate perimeter and area of composite shapes.

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Low Attaining Year 7 student	**Middle Attaining Year 7 student**	**High Attaining Year 7 student**
In Statistics I can • Read and interpret pictograms. • Collect data in a tally chart. • Draw and interpret bar charts. • Calculate averages and range from a list of data. • I can use the probability scale. **In Ratio and proportion I can** • Recognise and write information as a ratio. • Understand basic proportion problems.	**In Statistics I can** • Interpret graphs and diagrams and draw conclusions. • Compare distributions using the range and an average. • Read and interpret pie charts. • Calculate probabilities of single events. **In Ratio and proportion I can** • Share using a given two part ratio. • Write a ratio as a fraction. • Calculation proportion problems.	• Calculate the area and circumference of a circle. • Recall the special properties of quadrilaterals • Understand and recall the properties of polygons. • Calculate angles in parallel lines. **In Statistics I can** • Draw dual and composite bar charts • Understand discrete and continuous data. • Read two way tables. • Draw scatter diagrams and understand correlation. • Understand stem and leaf diagrams. • Draw pie charts. • Draw frequency polygons. • I can understand how mutually exclusivity affects combined and independent events. **In Ratio and proportion I can** • Share using a given two part ratio. • Write a ratio as a fractions. • Calculation proportion problems. • Calculate Percentage increase and decrease problems.

REGENTS PARK
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Regents Park Community College – Year 8 Maths Progress Pathway Descriptors		
Low Attaining Year 8 student	**Middle Attaining Year 8 student**	**High Attaining Year 8 student**
In number I can • Multiply and divide a 3 digit number by a 2 digit number. • Simplify fractions. • Add, subtract, multiply and divide fractions. • Find fractions and percentages of quantities. • Understand and use BIDMAS. • Use negative numbers in real life context. • Estimate using approximations. **In algebra I can** • Plot and identify coordinates in four quadrants. • Simplify expressions with more than one variable. • Expand a single bracket. • Substitute positive values into expressions. **In geometry I can** • Measure and draw angles to nearest degree. • Use formula for the area of a rectangle and triangle. • Covert between metric units • Calculate unknown angles in triangles, on a straight line and at a point. • I can find symmetry in 2D shapes.	**In number I can** • Calculate with whole numbers and decimals • Add, subtract, multiply and divide fractions with mixed numbers. • Use equivalent fractions, percentages and decimals. • Add and subtract using negative numbers. • Round to decimal places and significant figures. • Find HCF and LCM • Share using a given ratio **In algebra I can** • Simplify algebraic Expressions. • Expand brackets with indices. • Substitute values into expressions. • Solve one and two step equations. • Plot and draw straight ling graphs. • Find the nth term of a sequence. **I Geometry I can** • Calculate area of parallelograms and trapeziums. • Calculate perimeter and area of composite shapes.	**In number I can** • Multiply and divide by a number less than 1. • Estimate by rounding to one significant figure. • Convert between fractions, decimals, percentages and ratios. • Write large and small numbers in standard form. • Add, subtract, multiply and divide numbers in standard form. **In algebra I can** • Expand two and double brackets. • Factorise linear expressions • Solve equations with brackets, fractions and unknowns on both sides. • Rearrange simple formulae. • Represent inequalities on a number line. • Solve inequalities. • Calculate gradients of straight line graphs. **In geometry I can** • Convert between units of area and volume. • Calculate perimeter and area of basic sectors. • Calculate surface area and volume of prisms. • Use plans and elevations to construct 3D shapes.

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Regents Park Community College – Year 8 Maths Progress Pathway Descriptors		
Low Attaining Year 8 student	**Middle Attaining Year 8 student**	**High Attaining Year 8 student**
In Statistics I can • Interpret graphs and diagrams and draw conclusions. • Compare distributions using the range and an average. • Read and interpret pie charts. • Calculate probabilities of single events. **In Ratio and proportion I can** • Share using a given two part ratio. • Write a ratio as a fraction. • Calculation proportion problems.	• Calculate the area and circumference of a circle. • Recall the special properties of quadrilaterals • Understand and recall the properties of polygons. • Calculate angles in parallel lines. **In Statistics I can** • Draw dual and composite bar charts • Understand discrete and continuous data. • Read two way tables. • Draw scatter diagrams and understand correlation. • Understand stem and leaf diagrams. • Draw pie charts. • Draw frequency polygons. • I can understand how mutually exclusivity affects combined and independent events. **In Ratio and proportion I can** • Share using a given two part ratio. • Write a ratio as a fractions. • Calculation proportion problems. • Calculate Percentage increase and decrease problems.	• Use a ruler, protractor and compass to construct angles and triangles • I can draw the locus of a point, perpendicular bisector and angle bisector. • Calculate internal and external angles in polygons • Draw and describe transformations **In Statisics I can** • Draw and interpret Venn diagrams. • Use set notation • Compare two sets of data • I can select the most appropriate average. • I can find modal and median class. • Calculate and estimate the mean from frequency tables. • Calculate probability from different tables and charts. **In ratio and proportion I can** • Use multipliers to calculate percentages. • Calculate simple and compound interest. • Calculate speed, distance, time. • Use and interpret real life graphs.

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Regents Park Community College – Year 9 Maths Progress Pathway Descriptors		
Low Attaining Year 9 student	**Middle Attaining Year 9 student**	**High Attaining Year 9 student**
In number I can • Calculate with whole numbers and decimals • Add, subtract, multiply and divide fractions with mixed numbers. • Use equivalent fractions, percentages and decimals. • Add and subtract using negative numbers. • Round to decimal places and significant figures. • Find HCF and LCM • Share using a given ratio **In algebra I can** • Simplify algebraic Expressions. • Expand brackets with indices. • Substitute values into expressions. • Solve one and two step equations. • Plot and draw straight ling graphs. • Find the nth term of a sequence. **I Geometry I can** • Calculate area of parallelograms and trapeziums. • Calculate perimeter and area of composite shapes.	**In number I can** • Multiply and divide by a number less than 1. • Estimate by rounding to one significant figure. • Convert between fractions, decimals, percentages and ratios. • Write large and small numbers in standard form. • Add, subtract, multiply and divide numbers in standard form. **In algebra I can** • Expand two and double brackets. • Factorise linear expressions • Solve equations with brackets, fractions and unknowns on both sides. • Rearrange simple formulae. • Represent inequalities on a number line. • Solve inequalities. • Calculate gradients of straight line graphs. **In geometry I can** • Convert between units of area and volume. • Calculate perimeter and area of basic sectors. • Calculate surface area and volume of prisms. • Use plans and elevations to construct 3D shapes. • Draw and find bearings	**In number I can** • Use BIDMAS including powers and roots. • Use a calculator. • Use inverse operations to check answers. • Understand and use rules of indices. • Understand and calculate with surds. • Identify and calculate with bounds. **In algebra I can** • Expand triple brackets. • Factorise quadratic expressions. • Solve difficult equations. • Rearrange formulae. • Algebraic fractions. • Solve simultaneous equations. • Use the nth term for linear and quadratic sequences. • Find the equation of a line. • Plot quadratic, cubic and reciprocal graphs. • Identify regions on a graph from inequalities. **In geometry I can** • Calculate perimeter and area of sectors. • Calculate surface area and volume of cones and spheres. • Use trigonometry to calculate lengths and

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Regents Park Community College – Year 9 Maths Progress Pathway Descriptors		
Low Attaining Year 9 student	**Middle Attaining Year 9 student**	**High Attaining Year 9 student**
• Calculate the area and circumference of a circle. • Recall the special properties of quadrilaterals • Understand and recall the properties of polygons. • Calculate angles in parallel lines. **In Statistics I can** • Draw dual and composite bar charts • Understand discrete and continuous data. • Read two way tables. • Draw scatter diagrams and understand correlation. • Understand stem and leaf diagrams. • Draw pie charts. • Draw frequency polygons. • I can understand how mutually exclusivity affects combined and independent events. **In Ratio and proportion I can** • Share using a given two part ratio. • Write a ratio as a fractions. • Calculation proportion problems. • Calculate Percentage increase and decrease problems.	• Use a ruler, protractor and compass to construct angles and triangles • I can draw the locus of a point, perpendicular bisector and angle bisector. • Calculate internal and external angles in polygons • Draw and describe transformations • Use Pythagoras ' Theorem **In Statistics I can** • Draw and interpret Venn diagrams. • Use set notation • Compare two sets of data • I can select the most appropriate average. • I can find modal and median class. • Calculate and estimate the mean from frequency tables. • Calculate probability from different tables and charts. **In ratio and proportion I can** • Use multipliers to calculate percentages. • Calculate simple and compound interest. • Calculate speed, distance, time. • Use and interpret real life graphs. • Combine ratios to problem solve.	**In Statistics I can** • Complete and interpret frequency trees. • Construct and interpret cumulative frequency graphs. • Construct and interpret box plot diagrams. • Construct and interpret histograms. • Construct and interpret probability trees • Understand and calculate conditional probability **•In ratio and proportion I can** • Calculate growth and decay • Calculate reverse percentages