Subject: Mathematics – Summer Term

	Progress objective 2 Algebra	Progress objective 3: Geometry	Progress objective 4: Ration and Proportion
Pathway 1	• Generate terms of a linear sequence • Find a term given its position in a sequence • Describe the nth term in an arithmetic sequence • Recognise geometric sequences • Find the term-to-term rule for geometric sequences and continue to the next few terms • Read and plot x and y co-ordinates in all four quadrants • Find the midpoint of a line segment • Generate four quadrant coordinate pairs of simple linear functions • Plot and recognise graphs of y = x and y = –x and graphs parallel to x or y axis	• Use a formula to calculate the area of triangles • Find the area of a parallelogram or trapezium • Calculate the perimeter and area of shapes made from rectangles • Sketch nets of 3D solids • Find the volume of cubes or cuboids or solids made from cuboids • Find the surface area of simple cuboids • Convert cm3 to ml and litres and vice versa • Convert between area measures	• Reduce a ratio to its simplest form • Convert between measures • Simplify a ratio expressed in different units • Compare ratios by changing them to the form 1:m or m:1 • Divide a quantity into 2 or more parts in a given ratio • Simplify or write ratios using fractions, decimals or percentages • Solve word problems involving proportion • Use the unitary method to solve simple word problems involving ratio and proportion
	Progress objective 2 Algebra	Progress objective 3: Geometry	
Pathway 2	• Generate and describe simple and more complex sequences including nth term. • Identify and plot coordinates in all four quadrants. • Recognise and plot straight line graphs. • Make links between graphs, sequences and functions.	• Identify and label angles and lines. • Use properties of 2D shapes. • Estimate, measure and draw angles. • Draw triangles accurately. • Solve problems involving angles. • Understand properties, angle facts and problems involving quadrilaterals. • Describe congruence. • Find enlargements and scale factors. • Identify line, rotational and planes of symmetry. • Describe reflections. • Describe rotations. • Describe translations. • Combine transformations.	
	Progress objective 1 Number	Progress objective 3: Geometry	
Pathway 3	• Order fractions • Relate fractions to division and parts of shapes. • Identify equivalent fractions • Change an improper fraction to a mixed number • Find simple fractions of whole number quantities • Add and subtract simple fractions • Understand a percentage as the number of parts per 100 • Convert a percentage to a number of hundredths or tenths • Write a percentages as a fraction or decimal • Find simple percentages of whole number quantities	• Give the names of regular polygons • Classify triangles • Recognise properties of squares and rectangles • Calculate perimeters of rectangles and regular polygons • Calculate the perimeter and area of shapes made from rectangles • Use a formulae to calculate the area of squares and rectangles • Describe the symmetry of triangles and other shapes • Solve problems using line symmetry • Solve problems involving the perimeter of squares and rectangles • Understand reflections and reflect a shape in a mirror line	

- Understand translation and translate a shape
- Draw and describe rotations
- Understand the term 'congruent' and identify congruent shapes