Year 8 Autumn 1

Emerging (Support)	Expected (Core)	Exceeding (Extension)
Sequences		
• Function machine • Term-to-term rule • Sequence from nth term • Sequences from practical context • Sequences and problem solving	• Non-linear sequence • Sequence from nth term • Finding nth term • Sequences from practical context • Nth term and ICT • Sequences and problem solving	• Non-linear sequence • Sequence from nth term • Finding nth term • Sequences from practical context • Missing terms of quadratic sequence • Nth term and ICT • Is a number a term in the sequence? • Sequences and problem solving
Statistical Inquiry		
• Two-way table • Drawing frequency diagrams • Completing frequency tables • Stem-and-leaf diagram • Component and multiple bar chart • Statistical inquiry and problem solving	• Two-way table • Two-way table and worded problems • Stem-and-leaf diagram • Component and multiple bar chart • Pie chart • Scatter graph • Statistical inquiry and problem solving	• Two-way table and worded problems • Stem-and-leaf diagram • Component and multiple bar chart • Pie chart • Scatter graph • Cumulative frequency curve • Frequency polygon • Statistical inquiry and problem solving
Assessment 1 (Last Week of the Half-term)		
Properties of Number		

• Adding and subtracting large numbers • Multiply large numbers by 1 and 2 digits • Divide large numbers • Multiplying and dividing numbers by 10, 100, 1000, 0.1, 0.01, 0.001. • BIDMAS • Prime numbers • Prime factor decomposition • Numbers and problem solving	• Divide large numbers • Multiplying and dividing numbers by 10, 100, 1000, 0.1, 0.01, 0.001. • BIDMAS • Prime numbers • Prime factor decomposition • LCM and HCF • Indices • Numbers and problem solving	• Divide large numbers • Multiplying and dividing numbers by 10, 100, 1000, 0.1, 0.01, 0.001. • BIDMAS • Prime factor decomposition • LCM and HCF • Indices • Estimate sum • Standard form • Numbers and problem solving

Year 8 Autumn 2

Emerging (Support)	Expected (Core)	Exceeding (Extension)
Angle Properties		
• Identifying parallel lines • Identifying perpendicular lines • Angles on a straight line, at a point and a quadrilateral • Isosceles and equilateral triangles • Angle properties and problem solving	• Isosceles and equilateral triangles • Parallel lines and angle properties • irregular polygon • Regular polygons • Forming and solving equations in polygon and parallel lines • Angle properties and problem solving	• Parallel lines and angle properties • irregular polygon • Regular polygons • Forming and solving equations in polygon and parallel lines • Properties f regular polygon and problem solving • Angle properties and problem solving
Algebraic manipulations		
• Expressions and algebra	• Expressions and algebra	• Expressions and algebra

• Collecting like terms • Multiplying algebra • Expanding simple brackets • Algebraic expressions for Area, perimeter, and volume • Factorising • Algebra and problem solving	• Terms, formula, identities expressions, equations and formulae • Collecting like terms • Algebraic expressions for Area, perimeter, and volume • Expanding and simplifying two brackets • Factorising • Algebra and problem solving	• Terms, formula, identities expressions, equations and formulae • Algebraic expressions for Area, perimeter, and volume • Expanding and simplifying two brackets • Product of two linear brackets • Difference between two squares • Factorise quadratic expressions • Algebra and problem solving
Fractions		
• Change mixed numbers to top-heavy fractions and vice versa • Shading fractions of shapes • Fractions of quantities • Ordering fractions • Add fractions with common denominators • Fractions and problem solving	• Change mixed numbers to top-heavy fractions and vice versa • Fractions of quantities • Adding and subtracting fractions with non common denominators • Multiply and divide fractions • Reciprocal of numbers • Fractions and problem solving	• Change mixed numbers to top-heavy fractions and vice versa • Fractions of quantities • Adding and subtracting fractions with non common denominators • Multiply and divide fractions • Multiply mixed numbers • Reciprocal of numbers • Fractions and problem solving
Autumn 2 Assessment (Last two weeks before Christmas Holiday)		