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

Year 8 Autumn 2						
Emerging (Support)	Expected (Core)	Exceeding (Extension)				
Angle Properties						
• Identifying parallel lines	• Isosceles and equilateral	• Parallel lines and angle				
• Identifying perpendicular	triangles	properties				
lines	• Parallel lines and angle	• irregular polygon				
• Angles on a straight line, at	properties	• Regular polygons				
a point and a quadrilateral	• irregular polygon	• Forming and solving				
• Isosceles and equilateral	• Regular polygons	equations in polygon and				
triangles	• Forming and solving	parallel lines				
• Angle properties and	equations in polygon and	• Properties f regular				
problem solving	parallel lines	polygon and problem				
	• Angle properties and	solving				
	problem solving	• Angle properties and				
		problem solving				
Algebraic manipulations						
• Expressions and algebra	• Expressions and algebra	• Expressions and algebra				

• (Collecting like terms	•	Terms, formula, identities	•	Terms, formula, identities
• 1	Multiplying algebra		expressions, equations and		expressions, equations and
• F	Expanding simple brackets		formulae		formulae
• 4	Algebraic expressions for	•	Collecting like terms	•	Algebraic expressions for
A	Area, perimeter, and volume	•	Algebraic expressions for		Area, perimeter, and
• F	Factorising		Area, perimeter, and volume		volume
• 4	Algebra and problem solving	•	Expanding and simplifying	•	Expanding and
			two brackets		simplifying two brackets
		•	Factorising	•	Product of two linear
		•	Algebra and problem solving		brackets
				•	Difference between two
					squares
				•	Factorise quadratic
					expressions
				•	Algebra and problem
					1 :
					solving
			Fractions		solving
•	Change mixed numbers to	•	Fractions Change mixed numbers to	•	Change mixed numbers to
•	Change mixed numbers to top-heavy fractions and	•	Fractions Change mixed numbers to top-heavy fractions and vice	•	Change mixed numbers to top-heavy fractions and
•	Change mixed numbers to top-heavy fractions and vice versa	•	Fractions Change mixed numbers to top-heavy fractions and vice versa	•	Change mixed numbers to top-heavy fractions and vice versa
•	Change mixed numbers to top-heavy fractions and vice versa Shading fractions of shapes	•	FractionsChange mixed numbers totop-heavy fractions and viceversaFractions of quantities	•	Solving Change mixed numbers to top-heavy fractions and vice versa Fractions of quantities
•	Change mixed numbers to top-heavy fractions and vice versa Shading fractions of shapes Fractions of quantities	•	FractionsChange mixed numbers totop-heavy fractions and viceversaFractions of quantitiesAdding and subtracting	•	Solving Change mixed numbers to top-heavy fractions and vice versa Fractions of quantities Adding and subtracting
•	Change mixed numbers to top-heavy fractions and vice versa Shading fractions of shapes Fractions of quantities Ordering fractions	•	FractionsChange mixed numbers totop-heavy fractions and viceversaFractions of quantitiesAdding and subtractingfractions with non common	•	Solving Change mixed numbers to top-heavy fractions and vice versa Fractions of quantities Adding and subtracting fractions with non
•	Change mixed numbers to top-heavy fractions and vice versa Shading fractions of shapes Fractions of quantities Ordering fractions Add fractions with common	•	FractionsChange mixed numbers totop-heavy fractions and viceversaFractions of quantitiesAdding and subtractingfractions with non commondenominators	•	Solving Change mixed numbers to top-heavy fractions and vice versa Fractions of quantities Adding and subtracting fractions with non common denominators
•	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 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	•	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
•	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	•	Fractions 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	•	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
•	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	•	Fractions 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	•	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
•	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	•	Fractions 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
•	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	•	FractionsChange mixed numbers totop-heavy fractions and vicetop-heavy fractions and viceversaFractions of quantitiesAdding and subtractingfractions with non commondenominatorsMultiply and divide fractionsReciprocal of numbersFractions and problemsolving	•	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
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