

Mathematics

Yr 7	<u>Autumn Term 1</u>	Spring Term 1	<u>Summer Term 1</u>
1	 1.Whole numbers and decimals- Knowledge a.Place value: Know how use and understand place value. b.Ordering whole numbers: Know how to put numbers up to 1000 in order and use the symbols < and > (8i) c.Place value and decimals: Know how to use place value with decimals. (4h) 	 6. Graphs 6c. Reading graphs: Know how to match graphs with descriptions. (8g) 6d Line graphs 1: Know how to read from simple time series graphs. (2b) (2c) 6e Line graphs 2: Know how to read from time series graphs. My Summary and My review 	 e. Measuring and drawing angles (5C) Measure angles using a protractor. Draw angles using a protractor f. Drawing a Triangle (5F) Construct triangles using a ruler and protractor. g. Introducing circles. Draw circles using a pair of compasses. My Summary and My review
2	 d.Decimals and money: Use decimals to write money. e.Adding decimals: Know how to add simple decimals. (7e) f.Temperature: Know how to use temperature to understand simple negative numbers. (6b) (13d) 	 7. Adding and subtracting a. Mental methods of addition: Know how to use standard mental methods for adding small numbers.(1a) (1e) b. Mental methods of subtraction: Know how to use mental methods for subtracting small numbers. (14c) (14e) 	 13.Sequences 2A Ch 13 a.Sequences: Understand basic sequences b. Describing sequences: Describe simple term to term rules. c. Using rules: Generate sequences using term to term rules (3e)
3	 g.Rounding and estimating: Know how to round numbers to the nearest 10,100,1000. (14h) h.Order of operations: Know how to use the correct order of operations.(3e) My Summary and My review 	 c. Written addition and subtraction 1: Know how to use standard methods for adding and subtracting numbers: avoids carry digits and borrowing. d. Written addition and subtraction 2: Know how to use standard methods for adding and subtracting numbers. (14d) (14g) My Summary and My review 	 d. Sequences with negative numbers: Generate sequences with negative numbers (1F) My Summary and My review 14. Multiplying and dividing 2A Ch 11 a. Multiplication: Use multiplication tables. b. Multiplying by 10 and 100. (1a) Use place value to multiply by 10 and 100. c. Mental methods of multiplication. Use partitioning, doubling and halving
4	 2.Measures, perimeter and area. a.Measure lines: Know how to measure the length of lines, draw lines. (1c) (12f) b.Reading scales: Know how to read different types of scales.(5c) c.Time: Know how to understand and convert units of time. Read 12 / 24 hour clocks. 	 8. Statistics a.Planning and collecting data: Know how to use surveys and questionnaires. b.Organising data: Know how to use tally charts and frequency tables (16c) c.Reading lists and tables: Know how to read data from lists. 	 d. Written methods of multiplication: Use grid and column methods (7d) (15c) e. Mental methods of division Use sharing and grouping (7b) (11c) f. Division problems Dividing numbers in practical contexts. (15c)



Knov 💭	wledge Based Curriculum Map		
5	 d.2D Shapes: Know how to recognise and name 2D shapes. (5f) (12a) e.Perimeter: Know how to find the perimeter of a shape by adding the lengths of the sides. 	 d.Reading and drawing pictograms: Know how to read from and draw simple bar charts. (6a) e. Reading and drawing bar charts: Know how read and draw simple charts. (6a) f. Reading pie charts: Know how to read from simple pie charts. (4a) (5a) 	 g: Written methods of division Use repeated subtraction or other method. (7d) h. Calculator skills Carry out calculations with a calculator. Estimate answers to calculations. My summary and My review
6	 f.Area: Know how to measure area by counting squares. g.Metric units: Know how to use appropriate metric units. (14b) My Summary and My review 	 g. Reading diagrams: Know how to read from more general statistical diagrams.(6d) h. Averages – The mode: know how to find the mode of simple data sets 	 15. Ratio and Proportion 2B Ch 15 a. Ratio and proportion: Use fractions and ratios in proportion. (4b) (16c) b. Ratio and proportion problems: Solve simple proportion problems. c. Solving arithmetic problems: Solve simple arithmetic problems. (14d) d. Scale drawings: Work with scales and draw to scale. (12d) My summary and my review
7	 3.Expressions and Formulae a.Using letters 1: Know how to use letters to stand for unknown numbers. b.Using letters 2: Know how to work with unknowns. (10c) c.Adding with symbols: Simplifying expressions by collecting like terms 	 i. Averages- The median: Know how to find the median of simple data sets. j. Comparing data- range and average: Know how to compare simple data sets. My Summary and My review 	 16. Probability 2B Ch 16 a. Introducing probability: Understand the language of probability. b. The probability scale 1: Understand the language of probability. c. The probability scale 2: Understand the language of probability. Use a probability scale with fractions. (15a)
8	 d.Simplifying expressions: Know how to simplify expressions by collecting like terms. e.Substitution: Know how to substitute numbers into simple formula. (1h) (13c) f.Creating a formula: know how to write a simple algebraic formulae substituting into formulae. My Summary and My review 	 9. Transformations and symmetry: 2a Ch 9 a.Lines of symmetry: Identify lines of symmetry in 2D Shapes b.Reflection: Perform reflections in a given line. c. Translations: Describe and perform rotations. 	 d. Sets Understand what a set is. Use Venn diagrams to sort objects. My summary and my review
	<u>Autumn Term 2</u>	Spring Term 2	<u>Summer Term 2</u>
9	4.Fractions, decimals, and Percentages.a.Writing fractions: Know how to write fractions of a whole. (8F)	 d.Rotation: Describe and perform rotations (5a) e. Tessellations: Draw simple tessellations My Summary and My review 	17.Functional maths: The swimming gala. Calculate perimeters and areas (2e,2f) Work with units of measurement (2g)



Knowledge	Based	Curriculum	n Man
NIIUWIEUge	Daseu	Curricululi	i iviap

10 Equivalent Fractions: Itow now to WTe Infangles equivalent fractions: (15a) Limproper fractions: (15a) Usagles 10 Fractions of an amount: Estimating using scales (15d) 10 Fraction of an amount: 0 e. Fraction of an amount: 0 finding percentages: Know how to find a percentage of an amount. 0 finding percentages: Know how to find in percentages of an amount. 0 finding percentages: (12) 0 finding percentages: (12) 0 My summary and My review 10 5.Angles and 2D shapes. 11. Factors and multiples. 2A Ch 1 a.Angles: Know how to ada angles in a right angle and on a straight line. 11. Factors and multiples. 2A Ch 1 e.Cuculating angles: Know how to to stamate angles 11. Factors and multiples. 2A Ch 1 a.Angles: Know how to be masure angles in a right angle and on a straight line. 11.		h Fauinalant Fractional Know how to waite		Triangles
equivalent rations. (13a) Use alige fact(5(a, 5, c, 5f) e. Fractions to mixed numbers. I. Equations: 12a (14a) d. Fractions of an amount: Coperations: Work out outputs and functions faction of an amount. fraction of an amount. Deperations: Work out outputs and functions factor of an amount. fraction of an amount. Deperations: Work out outputs and functions factor of an amount. fraction of an amount. Deperations: Work out outputs and function machines. fraction of an amount. Deperations: Work out outputs using arithmetic and function machines. fraction of an amount. Deperations: Know how to find a percentages: Know how to find in percentages of an amount. g. Finding percentages: Know how to find in percentages: (1c) (16c) Equations 1: Solve simple one step, additive equations using inverse operations. herechtages of an amount. Equations 2: Solve simple one step, additive equations using inverse operations. gercentages. (1c) (16c) My Summary and My Review My Summary and My review I.1. Factors and multiples. 2A Ch 1 a. Angles: Know how to add angles. a. Factors: List factors of small numbers. (2f) b. Adding angles: Know how to measure angles. I.1. Factors and multiples. 2A Ch 1 a. Factors: List factors of small numbers. (2f) Multiples: List multiples of small numbers. (2f)		D.Equivalent Fractions: Know now to write		Indigies
Limproper Fractions: Know how to convert improper fractions to mixed numbers. Estimating using scales (150) 10 Fractions of an amount1: Know how to find a fraction of an amount2: Know how to find a fraction of an amount. 10. Equations: 2a Ch 10 Functional maths: The diving pool and ticket sales 10 Fractions of an amount. a. Operations: Work out outputs and function a mount. Functional maths: The diving pool and ticket sales 10 F. Percentages: Know how to find a fraction of an amount. b. Inverse operations: Work out inputs using arithmetic and function machines. Functional maths: Getting ready for the gala Probabilit (16a, 16c) 11 f. Percentages: Know how to find in percentages of an amount. c. Using letters 3: Solve simple one step, additive equations using inverse operations (3b) Functional maths: Getting ready for the gala Probability 11 h. Fractions, decimals and percentages: (now how to convert between fractions, decimals and percentages. (1c) (16c) Multiplication My Summary and My Review Multiplication Coordinates 12 S.Angles and 2D shapes. a.Angles: Know how to add angles. (B) (9d) 11. Factors and multiples. 2AC h 1 a. Factors: List factors of small numbers. (2f) b. Multiples: List multiples of small numbers. (2f) b. Multiples: List multiples of small numbers. (2f) b. Multiples: List multiples of small numbers. (2f) b. Multiples: List actors is for divisibility by 2,3,4,5 and 10. (14e) Statistics: mode, median and range(8h,8i,8j) Simple equations (3a) Reading scales (2b) Algebraic expressions Su		equivalent fractions. (15a)		Use angle facts (5a, 5c, 5f)
Improper tractions to mixed numbers.Measuring angles (12e)10Adding angles at a point:10. Equations: 2a Ch 1011a. Operations: Work out outputs and functionScale drawing and nets (12e)11fraction of an amount.a. Operations: Work out outputs and function11fraction of an amount.a. Operations: Work out inputs using arithmetic and function machines.11fraction of an amount.b. Inverse operations: Work out inputs using arithmetic and function machines.11fractions, decimals and percentages:c. Using letters 3: Solve simple one step, additive equations using alancing.11fractions, decimals and percentages:c. Using letters 3: Solve simple one step, additive equations using alancing.12fractions, decimals and percentages:c. Using letters 3: Solve simple one step, additive equations using alancing.12S.Angles: Anow how to add angles in a right angle and on a straight line. c. C.Basuring angles: Know how to add angles in a missing angles: Know how to estimate and classify angles at a point.11. Factors and multiples. 2A Ch 1 a. Factors is fraind numbers.13d. Finding angles at a point.c. Tests of divisibility: Tests for divisibility by 2,3,4,5 and 10. (14e)13d. Finding angles at a point.c. Tests of divisibility: Tests for divisibility by 2,3,4,5 and 10. (14e)13d. Finding angles at a point.c. Tests of divisibility: Tests for divisibility by 2,3,4,5 and 10. (14e)14d. Finding angles: Know how to estimate and classify angles and find angles on a straight line. c. Forperties of triangles: Know how identi		c.Improper Fractions: Know how to convert		Estimating using scales (15d)
Image: Instant of a a mount:10. Equations: 2a Ch 10Functional maths: The diving pool and ticket sales10is Fractions of an amount:a. Operations: Work out outputs and functionsScale drawing and nests (12c)11is Finding percentages: Know how to find a percentage of an amount.b. Inverse operations: Work out inputs using arithmetic and functions machines.Taily charts and bar charts (8b,8c,8e)11f.Percentages: Know how to find a percentage of an amount.c. Using letters 3: Solve simple one step, additive equations using linverse operations: Work out one step, additive equations using balancing.Functional maths: The diving pool and ticket sales11f.Percentages: Know how to find a percentage: Know how to find in percentages: Chow how to find in percentages: Know how to find an percentage: Solve simple one step, additive equations using balancing.Functional maths: Certing ready for the gala11h.Fractions, decimals and percentage: Know how to find in percentages. (1c) (16c)c. Using letters 3: Solve simple one step, additive equations using inverse operations.Functional maths: The diving competition and the cards for amount.12S.Angles: And Db reviewc. Statistics: Solve simple one step additive equations using inverse operations.Functional maths: The diving competition and the cards for amount.136. Shangles: And M review11. Factors and multiples. 2A Ch 1a. Factors: List factors of small numbers. (2f)Statistics: mode, median and range(8h,8i,8j)14b.Adding angles: Know how to dad angles in a right angle and on a straight line.c. Tests of divisibility: Tests for divisibility by 2.3,4,5 and 10. (14e)Statistics: mode, median and range(8h,8i,8j) <th></th> <th>improper fractions to mixed numbers.</th> <th></th> <th>Measuring angles (12e)</th>		improper fractions to mixed numbers.		Measuring angles (12e)
In the second		d. Fractions of an amount1: Know how to find a	10. Equations: 2a Ch 10	Functional maths: The diving pool and ticket sales
10e. Fractions of an amount2: Know how to find a fraction of an amount.using function machines b. Inverse operations: Work out inputs using arithmetic and function machines.Probabilty (16a, 16c) Tally charts and bar charts (8b,8c,8e) Multiplying decimals (1d, 14h) Money (1d, 15c)11f.Percentages: Know how to find a percentages: g. Finding percentages: Know how to find in percentages of an amount.c. Using letters 3: Solve simple one step, additive equations using inverse operations (3b)Functional maths: Getting ready for the gala Probability (16a, 15c)11f.Percentages: Know how to find in percentages of an amount.c. Using letters 3: Solve simple one step, additive equations using balancing.Functional maths: Getting ready for the gala Probability Factors11f.Percentages: (1c) (16c) My Summary and My reviewc. Using letters 2: Solve simple one step, additive equations using inverse operations.Probability Probability Factors12b.Adding angles: Know how to classify and match angles. (8f) (9d)b. Multiples: List multiples. 2A Ch 1 a. Factors: List factors of small numbers. (2f) b. Multiples: List multiples of small numbers. (2f) b. Multiples: List of divisibility by 2,3,4,5 and 10. (14e) d. Square numbers: Understand square numbersFunctional maths: The invitation event Straight line graphs(1b) Straight line graphs(1b) Straight line graphs(1b) Straight line graphs(1b) Staight line graphs(1b) Staign angles at a point. C.Calculating angles: Know how to estimate and classify rangles and find angles on a straight l		fraction of an amount.	a. Operations: Work out outputs and functions	Scale drawing and nets (12c)
10 fraction of an amount. b. Inverse operations: Work out inputs using arithmetic and function machines. Tally charts and bar charts (8b,8c,8e) 11 f.Percentages: Know how to find a percentage of an amount. c. Using letters 3: Solve simple one step, additive equations using inverse operations (3b) Functional maths: Getting ready for the gala 11 f.Fractions, decimals and percentages: Know how to find in percentages. (1c) (16c) c. Using letters 3: Solve simple one step, additive equations using balancing. Functional maths: Getting ready for the gala 11 h.Fractions, decimals and percentages: Know how to find in percentages. (1c) (16c) c. Equations 2: Solve simple one step, additive equations using inverse operations. Factors My Summary and My review S.Angles and 2D shapes. a. Factors: List factors of small numbers. (2f) My Summary and My Review Functional maths: The diving competition and the cafe. 12 b.Adding angles: Know how to add angles in a right angle and on a straight line. i. Factors and multiples. 2A Ch 1 a. Factors: List factors of small numbers. (2f) Simple equations (3a) 13 d. Finding angles at a point. c. Tests of divisibility: Tests for divisibility by 2.3,4,5 and 10. (14e) Substitution (3e, 10e) 13 d. Finding angles at a point. c. Tests of divisibility: Tests for divisibility by 2.3,4,5 and 10. (14e) Solving numerical proble	10	e. Fractions of an amount2: Know how to find a	using function machines	Probabilty (16a, 16c)
Image: arithmetic and function machines.Multiplying decimals (1d, 14h) Money (1d, 15c)Image: f.Percentages: Know how to find a percentage of an amount.c. Using letters 3: Solve simple one step, additive equations using inverse operations (3b)Functional maths: Getting ready for the gala Probability11g. Finding percentages: Know how to find in percentages of an amount.c. Using letters 3: Solve simple one step, additive equations using inverse operations (3b)Functional maths: Getting ready for the gala Probability11h.Fractions, decimals and percentages: Know how to find in percentages. (1c) (16c)c. Equations 2: Solve simple one step, additive equations using inverse operations.Factors Multiplication12S.Angles and 2D shapes. a.Angles: Know how to classify and match angles. (8f) (9d)11. Factors and multiples. 2A Ch 1 a. Factors: List factors of small numbers. (2f) b. Multiples: List multiples of small numbers. (2f) b. Adget and on a straight line. c.C.Measuring angles: Know how to measure angles using a protractor. (2b) (12e)c. Tests of divisibility: Tests for divisibility by 2.3.4,5 and 10. (14e) d. Square numbers: Understand square numbers. Calculating angles: Anow how to estimate and classify triangles. (2d)f. Tests of divisibility by 2.3.4,5 and 10. (14e) d. Square numbers. Calculate square numbers. Calculate square numbers. Calculating angles: (2d)f. Tests of divisibili	10	fraction of an amount.	b. Inverse operations: Work out inputs using	Tally charts and bar charts (8b,8c,8e)
 f.Percentages: Know how to find a percentage of an amount. f.Fercentages: Know how to find in percentages: Know how to find in percentages: Know how to find in percentages: (IC) (16C) f.Fractions, decimals and percentages: Know how to find in percentages. (1C) (16C) My Summary and My review f.Angles and 2D shapes. a.Angles: Know how to classify and match angles. (B) (9d) b.Adding angles: Know how to dad angles in a right angle and on a straight line. c. Measuring angles: Know how to estimate and classify angles at a point. e.Calculating angles: Know how to estimate and classify angles and point. e.Calculating angles: Know how to estimate and classify inangles. (2d) c. Tests of divisibility: Tests for divisibility by 2,3,4,5 and 10. (14e) d. Finding angles: Know how to estimate and classify inangles. (2d) f. Finding angles: Know how to estimate and classify inangles. (2d) f. Finding angles: Know how to estimate and classify inangles. (2d) d. Finding angles in a right angles and point. e.Calculating angles: Know how to estimate and classify inangles. (2d) d. Finding angles in a right angles and point. e.Calculating angles: Know how to estimate and classify inangles. (2d) d. Finding angles in a point. e.Calculating angles: Know how to estimate and classify inangles. (2d) d. Square numbers: Understand square numbers. Gasify triangles. (2d) d. Square numbers: Understand square numbers. Gasify triangles. (2d) d. Square numbers: Understand square numbers. Gasify triangles. (2d) d. Square numbers: My summary and My review 			arithmetic and function machines.	Multiplying decimals (1d, 14h)
11f.Percentages: Know how to find a percentage of an amount. g. Finding percentages: Know how to find in percentages of an amount. h.Fractions, decimals and percentages: Know how to convert between fractions, decimals and percentages: (1c) (15c) My Summary and My reviewc. Using letters 3: Solve simple one step, additive equations using inverse operations (3b) d. Equations 1: Solve simple one step, additive equations using inverse operations. My Summary and My reviewFunctional maths: Getting ready for the gala Probability Factors Multiplication Coordinates Reflective symmetry Ordering decimals and decimal calculations Ratio and proportion125.Angles and 2D shapes. a.Angles: Know how to add angles in a right angle and on a straight line. C.Measuring angles: Know how to measure angles using a protractor. (2b) (12e)11. Factors and multiples. 2A Ch 1 a. Factors: List factors of small numbers. (2f) b. Multiples: List multiples of small numbers. (2f) b. Multiples: List multiples of small numbers. (14a) Simple equations (3a) Reading scales (2b) Algebraic expressions Substitution (3e, 10e)Functional maths: The diving competition and the café. Statistics: mode, median and range(8h,8i,8j) Simple equations (3a) Reading scales (2b) Algebraic expressions Substitution (3e, 10e)13d. Finding angles at a point. (e.Sity angles and find angles on a straight line. (f.Properties of triangles: (2d))c. Tests of divisibility: Tests for divisibility by 2;3,4,5 and 10. (14e) d. Square numbers: Calculate square numbers: Calculate square numbers: Calculate square numbers: My summary and My reviewFunctional maths: The invitation event Straight line graphs(1b) Solving numerical problems(7a) Interpreting tables and charts Drawin				Money (1d, 15c)
an amount. g. Finding percentages: Know how to find in percentages of an amount. h.Fractions, decimals and percentages: Know how to to convert between fractions, decimals and percentages. (1c) (16c) My Summary and My reviewequations 1: Solve simple one step, additive equations 2: Solve simple one step additive or definition (2: Solve simple one step additive equations 2: Solve simple one step additive to convert between fractions, decimal calculations Ratio and proportionProbability fractors Cordinates Reflective symmetry Ordering decimal calculations Ratio and proportion12A.A.Meles: Know how to classify time. right angle and on a straight line. c. Cheasuring angles: Know how to estimate and classify ria		f.Percentages: Know how to find a percentage of	c. Using letters 3: Solve simple one step, additive	Functional maths: Getting ready for the gala
g. Finding percentages: Know how to find in percentages of an amount.d. Equations 1: Solve simple one step, additive equations using balancing.Factors Multiplication11h.Fractions, decimals and percentages: Know how to convert between fractions, decimals and percentages. (1c) (16c) My Summary and My reviewe. Equations 2: Solve simple one step additive equations using balancing.Koultiplication125.Angles and 2D shapes. a.Angles: Know how to classify and match angles. (8f) (9d)11. Factors and multiples. 2A Ch 1 a. Factors: List factors of small numbers. (2f) b. Multiples: List multiples of small numbers. (2f) b. Multiple: List multiples of small numbers. (2f) Algebraic expressions Substitution (3e, 10e)Functional maths: The diving competition and the café.13d. Finding angles at a point: f. Properties of triangles: Know how to estimate and classify triangles. (2d)c. Tests of divisibility: Tests for divisibility by 2,3,4,5 and 10. (14e) d. Square numbers.Functional maths: The invitation event Straight line graphs(1b) Solving numerical problems(7a) Interpreting tables and charts Drawing comparative bar		an amount.	equations using inverse operations (3b)	Probability
11percentages of an amount. h.Fractions, decimals and percentages: Know how to convert between fractions, decimals and percentages: Know how to convert between fractions, decimals and percentages: (1c) (16c) My Summary and My ReviewMultiplication Coordinates Reflective symmetry Ordering decimals and decimal calculations Ratio and proportion125.Angles and 2D shapes. a.Angles: Know how to classify and match angles. (8f) (9d) b.Adding angles: Know how to add angles in a right angle and on a straight line. c.Measuring angles: Know how to measure angles using a protractor. (2b) (12e)11. Factors and multiples. 2A Ch 1 a. Factors: List factors of small numbers. (2f) b. Multiples: List multiples of small numbers. (14a) Simple equations (3a) Reading scales (2b) Algebraic expressions Substitution (3e, 10e)Functional maths: The diving competition and the café.13d. Finding angles at a point. e.Calculating angles: Know how to estimate and classify angles and find angles on a straight line. f.Properties of triangles: Know how to destimate and classify triangles. (2d)c. Tests of divisibility: Tests for divisibility by 2,3,4,5 and 10. (14e) d. Square numbers: Understand Square numbers. Calculate square numbers My summary and My reviewFunctional maths: The invitation event Straight line graphs(1b) Solving numerical problems(7a) Interpreting tables and charts Drawing comparative bar charts(8c, 8e)		g. Finding percentages: Know how to find in	d. Equations 1: Solve simple one step, additive	Factors
11h.Fractions, decimals and percentages: Know how to convert between fractions, decimals and percentages. (1c) (16c)e. Equations 2: Solve simple one step additive equations using inverse operations.CoordinatesMy Summary and My reviewMy Summary and My ReviewOrdering decimals and decimal calculations Ratio and proportion125.Angles and 2D shapes. a.Angles: Know how to classify and match angles. (8f) (9d)11. Factors and multiples. 2A Ch 1 a. Factors: List factors of small numbers. (2f) b. Multiples: List multiples of small numbers. (14a) .Functional maths: The diving competition and the café.126. Finding angles: Know how to add angles in a right angle and on a straight line. c. Measuring angles: Know how to measure angles using a protractor. (2b) (12e)1. Factors of divisibility: Tests for divisibility by 2,3,4,5 and 10. (14e)Simple equations (3a) Reading scales (2b) Algebraic expressions Substitution (3e, 10e)13d. Finding angles: Know how to estimate and classify angles and find angles on a straight line. f. Properties of triangles: Know how identify and classify triangles: (2d)c. Tests of divisibility: Tests for divisibility by 2,3,4,5 and 10. (14e) d. Square numbers: Understand square numbers. Calculate square numbersFunctional maths: The invitation event Straight line graphs(1b) Solving numerical problems(7a) Interpreting tables and charts Drawing comparative bar charts(8c, 8e)	11	percentages of an amount.	equations using balancing.	Multiplication
to convert between fractions, decimals and percentages. (1c) (16c) My Summary and My reviewequations using inverse operations. My Summary and My ReviewReflective symmetry Ordering decimals and decimal calculations Ratio and proportion125.Angles and 2D shapes. a.Angles: Know how to classify and match angles. (8f) (9d) b.Adding angles: Know how to add angles in a right angle and on a straight line. c.Measuring angles: Know how to measure angles using a protractor. (2b) (12e)11. Factors and multiples. 2A Ch 1 a. Factors: List factors of small numbers. (2f) b. Multiples: List multiples of small numbers. (14a) d. Statistics: mode, median and range(8h,8i,8j) Simple equations (3a) Reading scales (2b) Algebraic expressions Substitution (3e, 10e)Functional maths: The invitation event Straight line, c. Tests of divisibility: Tests for divisibility by 2,3,4,5 and 10. (14e) d. Square numbersFunctional maths: The invitation event Straight line graphs(1b) Solving numerical problems(7a) Interpreting tables and charts Drawing comparative bar charts(8c, 8e)	11	h.Fractions, decimals and percentages: Know how	e. Equations 2: Solve simple one step additive	Coordinates
percentages. (1c) (16c) My Summary and My reviewMy Summary and My ReviewOrdering decimals and decimal calculations Ratio and proportion125.Angles and 2D shapes. a.Angles: Know how to classify and match angles. (8f) (9d)11. Factors and multiples. 2A Ch 1 a. Factors: List factors of small numbers. (2f) b. Multiples: List multiples of small numbers. (14a) . . Multiples: List multiples of small numbers. (14b) . Multiples: List multiples of small numbers. (14b) . Statistics: mode, median and range(8h,8i,8j) . Simple equations (3a) . Reading scales (2b) . Algebraic expressions . Substitution (3e, 10e)13d. Finding angles at a point: . e.Calculating angles: Know how to estimate and classify angles and find angles on a straight line. f. Properties of triangles: Know how identify and classify triangles. (2d)c. Tests of divisibility: Tests for divisibility by 2,3,4,5 and 10. (14e) d. Square numbers. Calculate square numbers. My summary and My reviewFunctional maths: The invitation event Straight line graphs(1b) . Solving numerical problems(7a) . Interpreting tables and charts . Drawing comparative bar charts(8c, 8e)		to convert between fractions, decimals and	equations using inverse operations.	Reflective symmetry
My Summary and My reviewRatio and proportionS.Angles and 2D shapes. a.Angles: Know how to classify and match angles. (8f) (9d)11. Factors and multiples. 2A Ch 1 a. Factors: List factors of small numbers. (2f) b. Multiples: List multiples of small numbers. (14a)Functional maths: The diving competition and the café.12b.Adding angles: Know how to add angles in a right angle and on a straight line. cMeasuring angles: Know how to measure angles using a protractor. (2b) (12e)11. Factors and multiples. 2A Ch 1 a. Factors: List factors of small numbers. (2f) b. Multiples: List multiples of small numbers. (14a)Functional maths: The diving competition and the café.13d. Finding angles at a point: classify angles and find angles on a straight line. f.Properties of triangles: Know how to estimate and classify triangles. (2d)c. Tests of divisibility: Tests for divisibility by 2,3,4,5 and 10. (14e)Functional maths: The invitation event Straight line graphs(1b)13d. Finding angles at a point. classify angles and find angles on a straight line. f.Properties of triangles: Know how identify and classify triangles. (2d)c. Tests of divisibility: Tests for divisibility by 2,3,4,5 and 10. (14e)Functional maths: The invitation event Straight line graphs(1b)13d. Siquer numbers of triangles: Know how identify and classify triangles. (2d)straight line. My summary and My reviewFunctional maths: The invitation event Straight line graphs(1b)		percentages. (1c) (16c)	My Summary and My Review	Ordering decimals and decimal calculations
 5.Angles and 2D shapes. a.Angles: Know how to classify and match angles. (8f) (9d) b.Adding angles: Know how to add angles in a right angle and on a straight line. c.Measuring angles: Know how to measure angles using a protractor. (2b) (12e) d. Finding angles at a point: Know how to find missing angles: Know how to estimate and classify angles and find angles on a straight line. f.Properties of triangles: Know how to estimate and classify triangles: (2d) f.Properties (2d) 		My Summary and My review		Ratio and proportion
12a.Angles: Know how to classify and match angles. (8f) (9d)a. Factors: List factors of small numbers. (2f) b. Multiples: List multiples of small numbers. (14a) right angle and on a straight line. 		5.Angles and 2D shapes.	11. Factors and multiples. 2A Ch 1	Functional maths: The diving competition and the
 (8f) (9d) b.Adding angles: Know how to add angles in a right angle and on a straight line. c.Measuring angles: Know how to measure angles using a protractor. (2b) (12e) d. Finding angles at a point: Know how to find missing angles at a point. e.Calculating angles: Know how to estimate and classify angles and find angles on a straight line. f.Properties of triangles: Know how identify and classify triangles. (2d) b.Multiples: List multiples of small numbers. (14a) b. Multiples: List multiples of small numbers. (14a) c. Tests of divisibility: Tests for divisibility by 2,3,4,5 and 10. (14e) d. Square numbers: Understand square numbers. Calculate square numbers. Calculate square numbers. Calculate square numbers. My summary and My review Drawing comparative bar charts(8c, 8e) 		a.Angles: Know how to classify and match angles.	a. Factors: List factors of small numbers. (2f)	café.
12b.Adding angles: Know how to add angles in a right angle and on a straight line. c.Measuring angles: Know how to measure angles using a protractor. (2b) (12e)		(8f) (9d)	b. Multiples: List multiples of small numbers. (14a)	Statistics: mode, median and range(8h,8i,8j)
 right angle and on a straight line. c.Measuring angles: Know how to measure angles using a protractor. (2b) (12e) d. Finding angles at a point: Know how to find missing angles at a point. e.Calculating angles: Know how to estimate and classify angles and find angles on a straight line. f.Properties of triangles: Know how identify and classify triangles. (2d) c. Tests of divisibility: Tests for divisibility by 2,3,4,5 and 10. (14e) d. Square numbers: Understand square numbers. My summary and My review Functional maths: The invitation event Straight line graphs(1b) Solving numerical problems(7a) Interpreting tables and charts Drawing comparative bar charts(8c, 8e) 		b.Adding angles : Know how to add angles in a		Simple equations (3a)
c.Measuring angles: Know how to measure angles using a protractor. (2b) (12e)Algebraic expressions Substitution (3e, 10e)d. Finding angles at a point: Know how to find missing angles at a point. e.Calculating angles: Know how to estimate and classify angles and find angles on a straight line. f.Properties of triangles: Know how identify and classify triangles. (2d)c. Tests of divisibility: Tests for divisibility by 2,3,4,5 and 10. (14e)Functional maths: The invitation event Straight line graphs(1b)13c. Tests of divisibility: Tests for divisibility: Tests for divisibility by 2,3,4,5 and 10. (14e)Solving numerical problems(7a) Interpreting tables and charts Drawing comparative bar charts(8c, 8e)	12	right angle and on a straight line.		Reading scales (2b)
using a protractor. (2b) (12e)Substitution (3e, 10e) d. Finding angles at a point: Know how to find missing angles at a point. c. Tests of divisibility: Tests for divisibility by 2,3,4,5 and 10. (14e) Functional maths: The invitation event Straight line graphs(1b) 13e.Calculating angles: Know how to estimate and classify angles and find angles on a straight line. f.Properties of triangles: Know how identify and classify triangles. (2d) c. Tests of divisibility: Tests for divisibility by 2,3,4,5 and 10. (14e) Functional maths: The invitation event Straight line graphs(1b) 13c. Calculating angles: Know how to estimate and classify triangles. (2d) d. Square numbers: Understand square numbers. Calculate square numbersSolving numerical problems(7a) Interpreting tables and charts Drawing comparative bar charts(8c, 8e)		c.Measuring angles: Know how to measure angles		Algebraic expressions
 Image: A second s		using a protractor. (2b) (12e)		Substitution (3e, 10e)
d. Finding angles at a point: Know how to find missing angles at a point.c. Tests of divisibility: Tests for divisibility by 2,3,4,5 and 10. (14e)Functional maths: The invitation event Straight line graphs(1b)13e.Calculating angles: Know how to estimate and classify angles and find angles on a straight line. f.Properties of triangles: Know how identify and classify triangles. (2d)c. Tests of divisibility: Tests for divisibility by 2,3,4,5 and 10. (14e)Functional maths: The invitation event Straight line graphs(1b)13c. Calculating angles at a point. e.Calculating angles: Know how to estimate and classify angles and find angles on a straight line. f.Properties of triangles: Know how identify and classify triangles. (2d)c. Tests of divisibility: Tests for divisibility by 2,3,4,5 and 10. (14e) d. Square numbers: Understand square numbers. My summary and My reviewFunctional maths: The invitation event Straight line graphs(1b) Solving numerical problems(7a) Interpreting tables and charts Drawing comparative bar charts(8c, 8e)				
 missing angles at a point. a.Calculating angles: Know how to estimate and classify angles and find angles on a straight line. f.Properties of triangles: Know how identify and classify triangles. (2d) 2,3,4,5 and 10. (14e) d. Square numbers: Understand square numbers. Galculate square numbers My summary and My review Drawing comparative bar charts(8c, 8e) 		d. Finding angles at a point: Know how to find	c. Tests of divisibility: Tests for divisibility by	Functional maths: The invitation event
 e.Calculating angles: Know how to estimate and classify angles and find angles on a straight line. f.Properties of triangles: Know how identify and classify triangles. (2d) d. Square numbers: Understand square numbers. Date: Calculate square numbers: Understand square numbers. Date: Calculate square numbers. My summary and My review. Drawing comparative bar charts(8c, 8e) 		missing angles at a point.	2,3,4,5 and 10. (14e)	Straight line graphs(1b)
13classify angles and find angles on a straight line. f.Properties of triangles: Know how identify and classify triangles. (2d)Calculate square numbers My summary and My reviewInterpreting tables and charts Drawing comparative bar charts(8c, 8e)		e.Calculating angles: Know how to estimate and	d. Square numbers: Understand square numbers.	Solving numerical problems(7a)
f.Properties of triangles: Know how identify and My summary and My review Drawing comparative bar charts(8c, 8e) classify triangles. (2d)	13	classify angles and find angles on a straight line.	Calculate square numbers	Interpreting tables and charts
classify triangles. (2d)		f.Properties of triangles: Know how identify and	My summary and My review	Drawing comparative bar charts(8c, 8e)
		classify triangles. (2d)		
g. Angles in a triangle: Know how to calculate 12 Constructions and 3D shapes. 2A Ch12, 2A	1.4	g. Angles in a triangle: Know how to calculate	12 Constructions and 3D shapes. 2A Ch12, 2A	
¹⁴ missing angles in a triangle. Ch14	14	missing angles in a triangle.	Ch14	



Clifford Holroyde SEN School Knowledge Based Curriculum Man

	Milowicuge based currentini map			
	h. Compass turns: Know how to work with	a.3D shapes: Name and describe 3D shapes Line		
	compass turns(multiples of 45)	1(2D)		
	My Summary and My review	b. Nets of cubes: Work with nets and cubes		
	6.Graphs	c. Nets of other 3D shapes: Work with nets of 3D		
	a.Coordinates: Know how to plot coordinates in	shapes		
15	the first quadrant. (8g)	d. 2D representations of 3D shapes: Draw 2D		
	b.Coordinates with negative numbers: Know how	representations such as plan, front and side		
	to plot coordinates in all four quadrants. 91f)	elevations. (2D) (15D)		

Co-ordinator _____ Date _____

SUBJECT_____

Yr 8	Autumn Term 1	Spring Term 1	Summer Term 1
1	 1.Whole numbers and decimals. 3B Ch1 a. Integers and decimals. Order positive and negative decimals. Add and subtract negative integers (7b,11a) b. Multiplying and dividing integers Multiply and dividing integers. (7d,11b,11c) c. Multiples and factors List multiples and all factors Apply divisibility tests 	 d. Mental multiplication and division Multiply numbers using mental methods. Divide numbers using mental methods. e. Mental addition and subtraction problems Solve problems using mental methods. f. Mental multiplication and division problems Solve problems using mental methods. My summary and My review 	 13.Sequences Ch 13 a. Term to Term dates Find the term to term rule. Generate sequences using the term to term rule b. Position to term rules Find the position to term rule. Generate sequences using the position to term rule.
2	 d. Prime numbers Identify prime numbers Use factor trees to find a numbers prime decomposition e. LCM and HCF Use prime decomposition to find the HCF and LCM of two numbers. Investigate using venn diagrams. (4c, 16e) 	 8.Statistics 3B Ch 8 a.Planning a data collection Primary and secondary data surveys b. Collecting data Discrete and continuous data. Frequency tables.(4a) c. Pie charts Draw and interpret pie charts 	 c. Sequences in context. Work with sequences in context. d. Geometric sequences Generate terms using geometric sequences. Find the term to term rule. (3b) My summary and My review



3	 f. Squares and cubes Recognise the square and cubes of integers. Calculate squares and cubes of negative numbers and decimals. (3b) g. Square roots Calculate square roots using trial and improvement and a calculator. h. Cube roots 	 d. Bar charts and frequency diagrams Draw and interpret bar charts and frequency diagrams. e. Averages Calculate mean, median, mode and range. f. Averages from frequency tables Calculate mean, median, mode and range from frequency tables. 	 14.3D shapes. 3B Ch 14 a.3d shapes Naming solids. Faces, edges and vertices. b.Plans and elevations Drawing and identifying plans and elevations.
	Calculate cube roots using trial and improvement and a calculator My summary and My review.		
4	 2. Measure, perimeter, and area. 3B Ch2 a.Metric Measures Know metric measures for length, mass, and capacity. Convert between metric measures b.Imperial Measure Convert between metric and imperial measures. Read scales. c. Perimeter and area of a rectangle Find the perimeter and area of a rectangle and simple composite shapes. 	 g Scatter graphs and correlation Draw and interpret scatter graphs. h Stem and leaf diagrams Draw and interpret stem and leaf diagram My summary and my review 	 c. Surface area of a cuboid (2c) Calculate the surface area of a cuboid. d. Volume of a cuboid Calculate the volume of a cuboid e. Prisms Calculate the volume of a prism My summary and My review
5	 d.Area of a triangle Use the formula for the area of a triangle. Find areas of composite shapes. e. Area of a parallelogram and a trapezium Use the formula for the area of a parallelogram and a trapezium. My summary and My review 	 9.Transformations and symmetry. 3B Ch 9 a. Transformations Perform rotations. Perform reflections. Perform translations. b. Combinations of transformations Combine transformations. 	 15. Ratio and Proportion Ch 15 (1b, 12g) a.Ratio Simplify ratios, Solve ratio problems by scaling up. Interpret scales on a map. (12g) b. Division in a given ratio. Divide a quantity in a given ratio. c. Direct proportion Solve direct proportion problems by scaling and the unitary method.

E

Clifford Holroyde SEN School Knowledge Based Curriculum Map

	3.Expressions and Formulae 3B	c. Symmetry	d. Ratio and proportion
	a. Simplifying and substituting	Rotational symmetry	Understand and use the relationship between ratio
	Use algebraic notation correctly and simplify	Reflectional symmetry	and proportion (16d)
	simple expressions.	d. Enlargements 1	e. Percentages increase and decrease
	Substitute integers into simple expressions.	Enlarge shapes by a given scales factor.	Calculate a percentage of an amount.
6	b. Indices	Understand similarity. (12f)	Calculate percentage increase and decreases.
	Write repeated numbers / letters using indices	e.Enlargements 2	(4d,4e)
	Evaluate numbers raised to an integer power.	Enlarge shapes by a given scale factor and the	f. Comparing proportions
	Simplify products by adding indices. (1f, 13d)	centre of enlargement	Calculate and compare proportions as fractions
			and percentages (4f)
			My summary and My review
	c. Like Terms	10. Equations 3B Ch 10	16. Probability Ch 16
	Simplify expressions by collecting like terms,	a. Solving one step equations	a. Listing outcomes
	including quadratic terms.	Solve simple equations	Listing outcomes using sample space diagrams and
	d. Expanding brackets	b. Solving multi – step equations	tree diagrams.
	Expand a bracket multiplied by an integer or single	Solve equations which require multiple steps and	b. Probability
	variable. (10c)	/or have an unknown on both sides.	Understand the probability scale and find simple
	Expand two sets of brackets and collect like terms.		probabilities.
7	e. Substitution into formulae		c. Experimental probability
	Substitute integers into a simple formula involving		Understand experimental probability.
	upto two variables		
	f. Writing a formula		
	Create simple, single variable formulae involving		
	upto to two operations.		
	Evalaute the formulae for integer values.		
	My summary and My review		
	Autumn Term 2	Spring Term 2	Summer Term 2
	4.Fractions, decimals and percentages 3B	c. Equations with brackets	d. Theoretical and experimental probability
	a. Ordering decimals	Solve equations with brackets. (3d)	Use experimental probabilities.
	Use place value to order decimals	d.Real life equations	e. Sets
	Sort decimals into class intervals	Form and solve real life equations. (3f)	Understand the language of sets.
8	Use inequality notation. (1a, 8b)	My summary and my review	Use Venn diagrams.
	b. Fractions and decimals		My summary and My review
	Convert terminating decimals to fractions.		
	Convert fractions to decimals by division.		



	Order fractions by converting to decimals. c. Adding and subtracting fractions. Add and subtract fractions by writing them with a		
	common denominator. (1e)		
	d. Fraction of a quantity	11.Written and calculator methods. 3B Ch 7	Functional maths: 17 a Planning the trip to France
	Find a fraction of a quantity by multiplication and	a. Written addition and subtraction (1a7b)	Percentages of amounts (4e)
	division. Write one number as a fraction of another	Add and subtract decimals using written methods.	Addition and subtraction problems (11e)
	to its lowest terms. (15d)	b. Written methods of multiplication	Multiplication and division problems (11f)
	e. Percentage of amounts	Multiply decimals using written methods. (1b,7d)	Rounding (7a)
0	Calculate a percentage of an amount using mental,	c. Written methods of division	Calculation methods (11g)
9	written and calculator methods. (15e)	Divide decimals using written methods (1b, 7d)	Expressions and formulae (3f)
	f. Fractions, decimals, and percentages		
	Covert between fractions, decimals, and		
	percentages. Write one number as a percentage of		
	another.		
	My summary and My review.		
	5. Angles and shapes 3B	d. Order of operations	Functional maths 17B Camp Sarlat
	a. Angles	Use BIDMAS	Area of rectangles (2c)
	Angles in a right angle	e. Addition and subtraction problems. (11e)	Coordinates and grid references
	Angles at a point	Solve problems using addition and subtraction.	
	Angles on a straight line	f. Multiplication and division problems	Functional maths 17C The sports day
10	b. Properties of a triangle	Solve problems using multiplication and division	Pie Charts (8c)
10	Angles in a triangle. (12a, 12b)	g. Calculation methods	Mean, median and mode (8e)
	c. Angles in parallel lines	Use a calculator to solve problems.	Averages from frequency tables (8f)
	Vertically opposite angles.	My summary and My review	Rounding (7e)
	Alternate angles.		
	Corresponding angles		
	d.Properties of a quadrilateral	f. Multiplication and division problems	Functional maths 17d The expedition
	Angles in quadrilaterals	Solve problems using multiplication and division	Fractions of a quantity (4d)
11	Properties of quadrilaterals	g. Calculation methods	Bearings (12g)
	e. Properties of a polygon	Use a calculator to solve problems.	Measuring angles (5a)
	Properties of polygons	My summary and My review	Scale drawings (12f)



Clifford Holroyde SEN School

	f Congruent shanes		
	Understand the basics of congruence		
	My summary and my review		
	6. Graphs 3B Ch 6	12. Constructions 3B Ch12	Functional maths 17e Camp life
	a.Drawing straight line graphs	Constructing triangles 1(5b)	Areas (2c, 2d)
	Drawing straight line graphs using tables. (3a)	Construct triangles using a ruler and a protractor	Solving real life equations (3f, 10d)
	b. Equation of a straight line		Rotations(9a)
12	Understand horizontal and vertical lines	b.Construct triangles 2	Average speed (10d)
		Construct triangles using a ruler and pair of	
	Plot straight lines using y=mx + c	compasses.	
	c. Real life graphs 1		
	Understand and use conversion graphs (10d)		
	d. Real life graphs 2	c.Bisectors	
	Understand and use other real life graphs.	Construct bisectors using a ruler and a pair of	
13	e. Time series graphs	compasses.	
	Plot time series graphs	d. Constructing perpendiculars.	
	My summary and my review	Construct perpendiculars using a ruler and a pair of	
		compasses	
	7. Mental calculations 3B Ch 7	e.Loci	
	a. Rounding	Construct simple loci using a ruler and a pair of	
	Round numbers to powers of 10	compasses.	
14	b. Mental addition and subtraction	f. Scale drawings	
	Add numbers using mental methods.	Work with scale drawings. (9d)	
	Subtract numbers using mental methods. (1a, 11a)	g. Bearings	
	c. Multiply and divide by powers of 10	Work with bearings	
	Multiply and divide by powers of 10	My summary and my review.	



<u>Clifford Holroyde SEN School</u> Knowledge Based Curriculum Map

Co-ordinator	
	-

Date _____

SUBJECT_

Yr 9	Autumn Term 1	Spring Term 1	Summer Term 1
1	 Whole numbers and decimals 1a. Powers of 10 (11c) Multiply and divide by powers of 10 including negative powers. 1b. Rounding (7e) Round to the nearest 10,100,1000. Round to one decimal place. 1c. Order of operations (7f) Apply the rules of BIDMAS correctly, both with and without a calculator 	 6c. Drawing straight line graphs Plot straight line graphs using tables. 6d. Problem solving using straight line graphs. Solve simultaneous equations from graphs. 6e. Straight line rules Find the gradient of a straight line graph. Understand gradient rules for parallel lines 	 10d. Balancing equations 2 Solve one and two step equations including those requiring simplification. 10e Writing equations (13c) Construct equations from a context.
2	 1d. Multiples, factors, divisibility and prime numbers. Work out factors and multiples of a number. Understand and use prime numbers. Single divisibility tests 1e. Prime factors, the HCF and the LCM (16g) Write numbers as products of prime factors. Find the HCF and LCM of a pair of numbers using factor trees or Venn diagrams. 1f. Ordering decimals Write down decimals shown on a number line and order decimals. My summary and my review 	 6f Interpreting real life graphs. Understand real life graphs. Use real life graphs to solve problems. 6g Time series graphs Interpret time series graphs My summary and my review 	 11 Powers and roots 11a Square numbers and square roots Find squares and square roots from recall or using a calculator. 11b Using square numbers and square roots. Use squares and square roots in problems.
3	 2. Measure and area 2a. Metric measures Convert between metric measures of length, capacity and mass. 	 7.Calculations 7a. Addition and subtraction Add and subtract numbers using mental methods. Add and subtract numbers using written methods. 7b. Mental multiplication and division Multiply numbers using mental methods. 	 11c Indices Understand and use simple rules of indices. 11d Standard form Convert to and from standard index form My summary and my review



	 2b. Imperial measures Convert between metric measures and imperial measures. 2c Area (14f) Find the area of rectangles, including ones with mixed units. 2d. Area of a triangle Calculate the area of a triangle 	Divide numbers using mental methods. 7c Written multiplication Multiply numbers using the grid method Divide numbers using mental methods	 12 Constructions 12a Using a protractor Measure and construct angles Construct triangles using ruler and protractor. 12b Perpendicular lines Understand perpendicular lines Draw perpendicular lines 12c Perpendicular bisectors Construct perpendicular bisectors using a ruler and a pair of compasses
4	 2e. Area of a parallelogram Calculate the area of a parallelogram and of simple compound shapes. 2f. Circumference of a circle Calculate the circumference of a circle My summary and my review 	7d Written division Divide numbers using short division. Divide numbers using long division. 7e Estimating and approximating Estimate answers by rounding Estimate answers to real life problems	 12d Angle bisectors Construct angle bisectors using a ruler and a pair of compasses. 12e Constructing triangles Construct triangles using a ruler and protractor or ruler and pair of compasses. 12f Bearings Understand three figure bearings and read bearings from map My summary and my review
5	 3. Expressions and formulae 3a Simplifying expressions. (10d) Simplify algebraic expressions by collecting like terms and simple multiplication / division. 3b Using brackets Expand single brackets. 	 7f. Using a calculator Use a calculator efficiently to solve problems. Interpret the calculator display. My summary and my review 	 13 Sequences 13a Term to Term sequences Use term to term rules to generate sequences. 13b Position to term rules Use position to term rules to generate sequences. Work out position to term rules.
6	 3c. Formulae Substitute values into simple formulae. 3d. Making expressions (10e) Derive an algebraic expression from a given context. My summary and my review. 	 8. Statistics 8a. Designing a survey Strategy: primary and secondary data. 8b. Collecting data Data collection sheets and questionnaires. 8c. Frequency tables Tally charts and frequency tables 	 13cThe nth term formula Find the nth term formula for a sequence. Work with sequences in context. 13d Recursive sequences Use formal methods for representing the term to term rule. My summary and My review



Clifford Holroyde SEN School

	Autumn Term 2	Spring Term 2	<u>Summer Term 2</u>
7	 4. Fractions, decimals and percentages 4a. Adding and subtracting fractions 1 Work out fraction of amounts. Add and subtract simple fractions. 4b. Adding and subtracting fractions 2 Add and subtract fractions using a common denominator. 4c. Fraction of a quantity Find fractions of physical amounts. 4d. Multiplying and dividing fractions Multiply and divide whole numbers by fractions. 	 8d. Bar charts Draw and interpret bar charts 8e. Pie charts Draw and interpret pie charts. 8f. Calculating averages. Mean, median, mode and range. 8g Scatter graphs Scatter graphs and understanding correlations. 8h. Stem and leaf diagrams Draw and interpret stem and leaf diagrams 	 14 3D shapes 14a Three dimensional shapes Naming and describing 3D shapes, faces edges and vertices. Recognising 3D shapes from descriptions 14b Nets Match nets to 3D shapes Draw nets of 3D shapes 14c Plans and elevations Match and draw plans and elevations of 3D shapes and compound shapes.
8	 4e. Fractions and decimals Convert between decimals and fractions Order decimals and fractions. 4f. Percentage of a quantity. (15d) Calculate percentages of given quantities with and without a calculator 	 8i. Frequency diagrams Draw histograms for grouped data 8j Writing a statistical report Communicate the findings from an enquiry. My summary and my review 	 14d Volume of a cuboid Calculate the volume of a cuboid 14e Shapes made from cuboids Calculate the volume of compound shapes 14f Surface area of a cuboid Calculate the surface area of a cuboid My summary and my review
9	 4g. Percentage problems (15e) Solve problems involving percentages. 4h. Financial maths 1: percentage (15f) Decimal multipliers for percentage change. Repeated percentage change. My summary and my review. 	 9. Transformations and symmetry 9a, Reflection and rotation symmetry. Recognise lines of symmetry Describe symmetry using rotation / reflection 9b. Reflection Perform reflections on coordinate grids. 9c. Translation Describe translations using column vectors. Perform translations on coordinate grids. 	 15 Ratio and proportion 15a Ratio Write down ratios. Simplify ratios. 15b Dividing in a given ratio. Divide quantities into given ratios. Solve ratio problems. 15c Ratio and proportion Link ratio and proportion by multiplication. 15d Percentages and proportion Work out proportion using percentages.
10	 5. Angles and 2D shapes 5a. Angles and lines Angles in parallel lines; vertically opposite, corresponding and alternate angles. 	9d Rotation Performs rotations using a centre and angle. 9e Enlargement Find the scale factor of enlargement	 15e Proportional reasoning Using unitary method and scaling to solve problems of direct proportion. 15f Financial maths 2; Living on a budget



	5b. Angles in a triangle	Draw enlargements (and reflection)	Saving to make purchases.
	Exterior and interior angles in triangles.	9f Enlargement through a centre	Analysing outgoings.
	Angle sums in triangles.	Find the centre of enlargement	Value for money.
	5c Properties of triangles (12e)	Draw enlargement with given centre	My summary and My review
	Types of triangles and angles properties.		
	5d. Angles in a quadrilateral	9g Scale diagrams	16 Probability
	Exterior and interior angles in quadrilaterals.	Understand scale drawing and draw to scale	16a Probability
	Angle sums in quadrilaterals.	My summary and my review	The language of probability
11	5e Properties of quadrilaterals		Understanding the probability scale.
	Types of quadrilateral and angle properties.		16b Mutually exclusive events
	My summary and my review		Mutually exclusive and exhaustive events
	6. Graphs	10 Equations	16c Theoretical probability
12	6a. Horizontal and vertical lines	10a Equality and inequality	Calculate probabilities of single events.
	Equations of horizontal and vertical lines.	Understand the mathematical principles of	16d Counting outcomes.
	6b. Tables of values	equality and inequality.	List outcomes using sample space diagrams.
	Complete tables of values for functions of X	10b Solving equations	16e Two events
	Link to function machines.	Solve one step equation	Use sample space diagrams and two way tables to
		10c Balancing equations 1	find probabilities.
		Solves one and two step equations.	16f

Co-ordinator _____ Date _____

SUBJECT_____

<u>Autumn Term 1</u>	Spring Term 1	<u>Summer Term 1</u>



Clifford Holroyde SEN School

Knowledge Based Curriculum Map

Autumn Term 2	Spring Term 2	<u>Summer Term 2</u>

Co-ordinator _____ Date _____

SUBJECT_____

Autumn Term 1	Spring Term 1	<u>Summer Term 1</u>

Co-ordinator _____ Date _____