## Mathematics

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



|  | b.Equivalent Fractions: Know how to write equivalent fractions. (15a) <br> c.Improper Fractions: Know how to convert improper fractions to mixed numbers. |  | Triangles <br> Use angle facts (5a, 5c, 5f) <br> Estimating using scales (15d) <br> Measuring angles (12e) |
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| 10 | d. Fractions of an amount1: Know how to find a fraction of an amount. <br> e. Fractions of an amount2: Know how to find a fraction of an amount. | 10. Equations: 2a Ch 10 <br> a. Operations: Work out outputs and functions using function machines <br> b. Inverse operations: Work out inputs using arithmetic and function machines. | Functional maths: The diving pool and ticket sales Scale drawing and nets (12c) <br> Probabilty (16a, 16c) <br> Tally charts and bar charts ( $8 \mathrm{~b}, 8 \mathrm{c}, 8 \mathrm{e}$ ) <br> Multiplying decimals (1d, 14h) <br> Money (1d, 15c) |
| 11 | f.Percentages: Know how to find a percentage of an amount. <br> g. Finding percentages: Know how to find in percentages of an amount. <br> h.Fractions, decimals and percentages: Know how to convert between fractions, decimals and percentages. (1c) (16c) <br> My Summary and My review | c. Using letters 3: Solve simple one step, additive equations using inverse operations (3b) <br> d. Equations 1: Solve simple one step, additive equations using balancing. <br> e. Equations 2: Solve simple one step additive equations using inverse operations. <br> My Summary and My Review | Functional maths: Getting ready for the gala <br> Probability <br> Factors <br> Multiplication <br> Coordinates <br> Reflective symmetry <br> Ordering decimals and decimal calculations <br> Ratio and proportion |
| 12 | 5.Angles and 2D shapes. <br> a.Angles: Know how to classify and match angles. <br> (8f) (9d) <br> b.Adding angles: Know how to add angles in a right angle and on a straight line. <br> c.Measuring angles: Know how to measure angles using a protractor. (2b) (12e) | 11. Factors and multiples. 2A Ch 1 <br> a. Factors: List factors of small numbers. (2f) <br> b. Multiples: List multiples of small numbers. (14a) | Functional maths: The diving competition and the café. <br> Statistics: mode, median and range $(8 \mathrm{~h}, 8 \mathrm{i}, 8 \mathrm{j})$ <br> Simple equations (3a) <br> Reading scales (2b) <br> Algebraic expressions <br> Substitution (3e, 10e) |
| 13 | d. Finding angles at a point: Know how to find missing angles at a point. <br> 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) <br> d. Square numbers: Understand square numbers. <br> Calculate square numbers <br> My summary and My review | Functional maths: The invitation event <br> Straight line graphs(1b) <br> Solving numerical problems(7a) <br> Interpreting tables and charts <br> Drawing comparative bar charts(8c, 8e) |
| 14 | g. Angles in a triangle: Know how to calculate missing angles in a triangle. | 12 Constructions and 3D shapes. 2A Ch12, 2A Ch14 |  |


| h. Compass turns: Know how to work with | a.3D shapes: Name and describe 3D shapes Line |
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| 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 |
| 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 <br> to plot coordinates in all four quadrants. 91f) |
| elevations. (2D) (15D) |  | Co-ordinator $\qquad$ Date $\qquad$ SUBJECT $\qquad$


| Yr $\mathbf{8}$ | Autumn Term 1 |
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Knowledge Based Curriculum Map
f. Squares and cubes
Recognise the square and cubes of integers.

Calculate squares and cubes of negative numbers
and decimals. (3b)

## g. Square roots

3 Calculate square roots using trial and improvement and a calculator.

## h. Cube roots

Calculate cube roots using trial and improvement and a calculator
My summary and My review.
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

4 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.

## 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
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.
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
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.

## 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
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.

Knowledge Based Curriculum Map

## 3.Expressions and Formulae 3B

## a. Simplifying and substituting

Use algebraic notation correctly and simplify simple expressions.
Substitute integers into simple expressions.

## b. Indices

Write repeated numbers / letters using indices
Evaluate numbers raised to an integer power.
Simplify products by adding indices. (1f, 13d)

## c. Like Terms

Simplify expressions by collecting like terms, including quadratic terms.

## d. Expanding brackets

Expand a bracket multiplied by an integer or single variable. (10c)
Expand two sets of brackets and collect like terms.
e. Substitution into formulae

Substitute integers into a simple formula involving 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

4.Fractions, decimals and percentages 3 B
a. Ordering decimals

Use place value to order decimals
Sort decimals into class intervals
Use inequality notation. ( $1 \mathrm{a}, \mathrm{8b}$ )
b. Fractions and decimals

Convert terminating decimals to fractions.
Convert fractions to decimals by division.
c. Symmetry

Rotational symmetry
Reflectional symmetry

## d. Enlargements 1

Enlarge shapes by a given scales factor.
Understand similarity. (12f)
e.Enlargements 2

Enlarge shapes by a given scale factor and the centre of enlargement

## 10. Equations 3B Ch 10

a. Solving one step equations

Solve simple equations

## b. Solving multi - step equations

Solve equations which require multiple steps and /or have an unknown on both sides.

## Spring Term 2

## c. Equations with brackets

Solve equations with brackets. (3d)

## d.Real life equations

Form and solve real life equations. (3f)
My summary and my review

## d. Ratio and proportion

Understand and use the relationship between ratio and proportion (16d)

## e. Percentages increase and decrease

Calculate a percentage of an amount.
Calculate percentage increase and decreases.
(4d,4e)
f. Comparing proportions

Calculate and compare proportions as fractions and percentages (4f)
My summary and My review
16. Probability Ch 16
a. Listing outcomes

Listing outcomes using sample space diagrams and tree diagrams.

## b. Probability

Understand the probability scale and find simple probabilities.

## c. Experimental probability

Understand experimental probability.

## Summer Term 2

d. Theoretical and experimental probability

Use experimental probabilities.

## e. Sets

Understand the language of sets.
Use Venn diagrams.
My summary and My review

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

Clifford Holroyde SEN School
Knowledge Based Curriculum Map

## f. Congruent shapes

Understand the basics of congruence My summary and my review
6. Graphs 3B Ch 6
a.Drawing straight line graphs

Drawing straight line graphs using tables. (3a)
b. Equation of a straight line

Understand horizontal and vertical lines
Plot straight lines using $\mathrm{y}=\mathrm{mx}+\mathrm{c}$
c. Real life graphs 1

Understand and use conversion graphs (10d)
d. Real life graphs 2

Understand and use other real life graphs.
e. Time series graphs

Plot time series graphs
My summary and my review
7. Mental calculations 3B Ch 7
a. Rounding

Round numbers to powers of 10
b. Mental addition and subtraction

Add numbers using mental methods.
Subtract numbers using mental methods. (1a, 11a)
c. Multiply and divide by powers of 10

Multiply and divide by powers of 10

Functional maths 17e Camp life
Areas (2c, 2d)
Solving real life equations (3f, 10d)
Rotations(9a)
Average speed (10d)
$\qquad$ Date $\qquad$
SUBJECT $\qquad$

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


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


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

Knowledge Based Curriculum Map
5b. Angles in a triangle $\quad$ Draw enlargements (and reflection) $\quad$ Saving to make purchases.

Exterior and interior angles in triangles.
Angle sums in triangles.
5c Properties of triangles (12e)
Types of triangles and angles properties.

## 5d. Angles in a quadrilateral

Exterior and interior angles in quadrilaterals.
Angle sums in quadrilaterals.
5e Properties of quadrilaterals
Types of quadrilateral and angle properties. My summary and my review

## 6. Graphs

6a. Horizontal and vertical lines
Equations of horizontal and vertical lines.
6 b. Tables of values
Complete tables of values for functions of $X$ Link to function machines.

Draw enlargements (and reflection)
9f Enlargement through a centre
Find the centre of enlargement
Draw enlargement with given centre

## 9g Scale diagrams

Understand scale drawing and draw to scale
My summary and my review

## 10 Equations

## 10a Equality and inequality

Understand the mathematical principles of equality and inequality.

## 10b Solving equations

Solve one step equation 10c Balancing equations 1
Solves one and two step equations.

Saving to make purchases
Analysing outgoings.
Value for money.
My summary and My review

## 16 Probability

## 16a Probability

The language of probability
Understanding the probability scale.
16b Mutually exclusive events
Mutually exclusive and exhaustive events

## 16c Theoretical probability

Calculate probabilities of single events.

## 16d Counting outcomes.

List outcomes using sample space diagrams.

## 16e Two events

Use sample space diagrams and two way tables to find probabilities.
$16 f$

Co-ordinator $\qquad$ Date $\qquad$

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