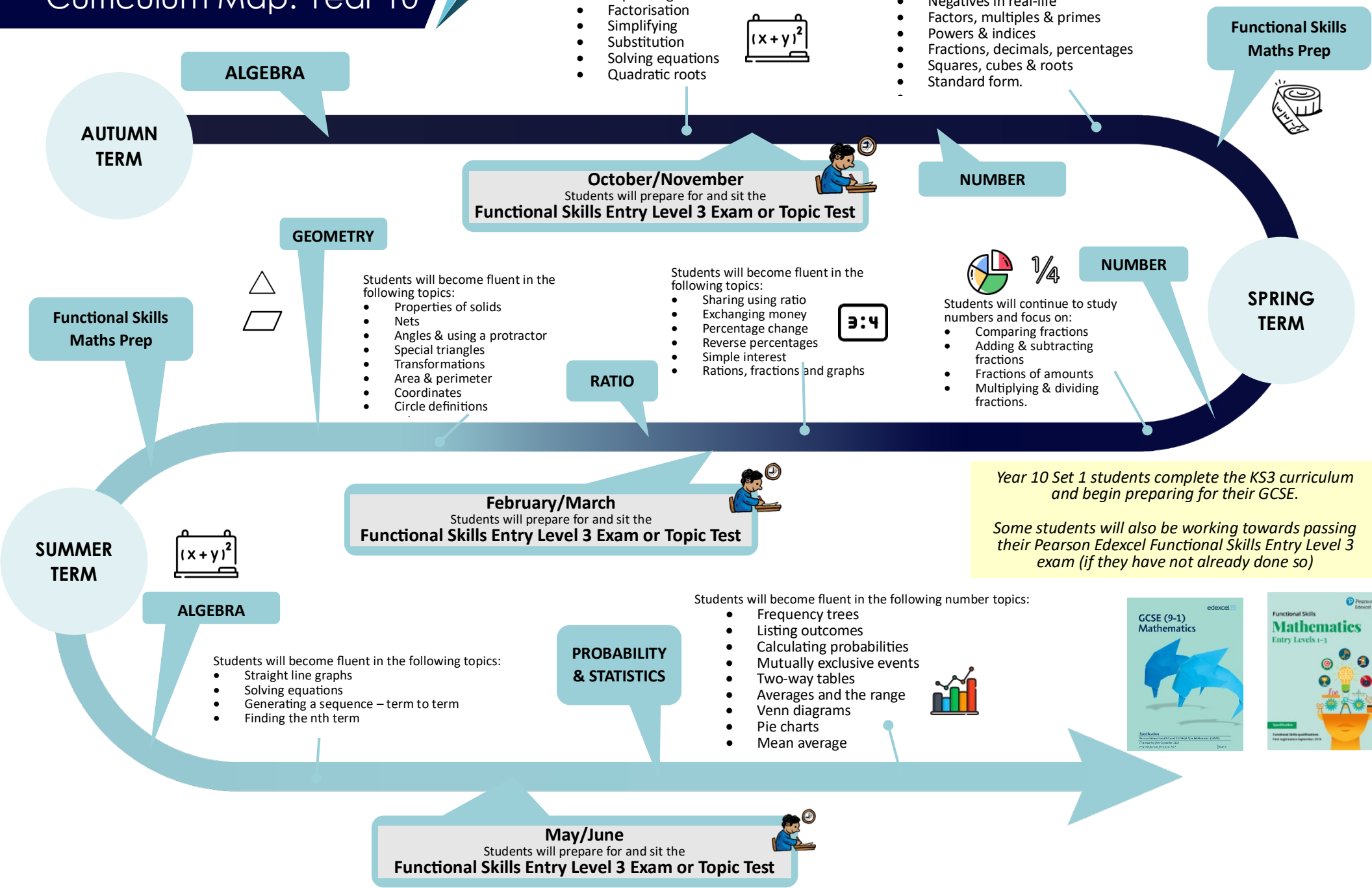
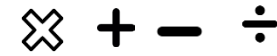


MATHS Set Z

Curriculum Map: Year 10

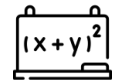


AUTUMN TERM

ALGEBRA

Students will become fluent in the following number topics:

- Expanding brackets
- Factorisation
- Simplifying
- Substitution
- Solving equations
- Quadratic roots



Students will become fluent in the following number topics:

- The four operations & inverses.
- Money – calculator & non-calculator
- Negatives in real-life
- Factors, multiples & primes
- Powers & indices
- Fractions, decimals, percentages
- Squares, cubes & roots
- Standard form.

Functional Skills Maths Prep



October/November
Students will prepare for and sit the **Functional Skills Entry Level 3 Exam or Topic Test**



NUMBER

GEOMETRY



Students will become fluent in the following topics:

- Properties of solids
- Nets
- Angles & using a protractor
- Special triangles
- Transformations
- Area & perimeter
- Coordinates
- Circle definitions

Students will become fluent in the following topics:

- Sharing using ratio
- Exchanging money
- Percentage change
- Reverse percentages
- Simple interest
- Rations, fractions and graphs



RATIO



NUMBER

Students will continue to study numbers and focus on:

- Comparing fractions
- Adding & subtracting fractions
- Fractions of amounts
- Multiplying & dividing fractions.

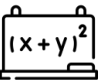
SPRING TERM

Functional Skills Maths Prep

February/March
Students will prepare for and sit the **Functional Skills Entry Level 3 Exam or Topic Test**



SUMMER TERM



ALGEBRA

Students will become fluent in the following topics:

- Straight line graphs
- Solving equations
- Generating a sequence – term to term
- Finding the nth term

PROBABILITY & STATISTICS

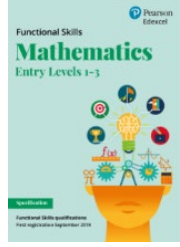
Students will become fluent in the following number topics:

- Frequency trees
- Listing outcomes
- Calculating probabilities
- Mutually exclusive events
- Two-way tables
- Averages and the range
- Venn diagrams
- Pie charts
- Mean average



Year 10 Set 1 students complete the KS3 curriculum and begin preparing for their GCSE.

Some students will also be working towards passing their Pearson Edexcel Functional Skills Entry Level 3 exam (if they have not already done so)



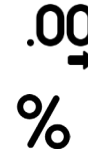
May/June
Students will prepare for and sit the **Functional Skills Entry Level 3 Exam or Topic Test**



MATHS Set Y

Curriculum Map: Year 10

Students will learn to round, order and compare decimals and percentages and find equivalent fractions including tenths and hundredths.



MEASUREMENT

Students will learn how to find the area and perimeter of polygons, rectangles and compound shapes.



Place value, Decimals & Percentages

AUTUMN TERM

October/November
Students will prepare for and sit the **Functional Skills Entry Level 2/3 Exam**



SPRING TERM

GEOMETRY



POSITION & DIRECTION
Students will learn to read, plot and solve problems with coordinates including translations and reflections in all 4 quadrants.

SHAPE

Students will learn understand and use degrees, classify, estimate & measure angles up to 180 degrees, draw lines and angles accurately and calculate angles within shapes.



STATISTICS



Students will learn to draw line graphs, read and interpret line graphs, read and interpret tables including two-way tables and timetables.

SUMMER TERM

February/March
Students will prepare for and sit the **Functional Skills Entry Level 2/3**



Year 10 Set 2 students complete the KS2 curriculum and work towards passing their Pearson Edexcel Functional Skills Entry Level 3 exam. Students will have 3 opportunities to sit this exam throughout the year.

NUMBER

DECIMALS
Students will learn to add and subtract decimals and multiply by 10, 100 & 1000.



NEGATIVE NUMBERS
Students will understand negative numbers, including counting through zero, comparing, ordering and finding the difference.



CONVERTING UNITS
Students will learn to convert between units of mass, capacity, length and time.

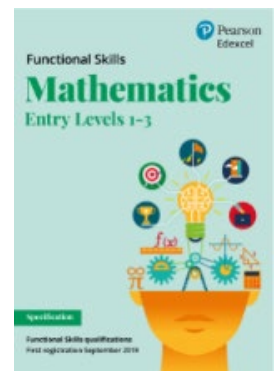


MEASUREMENT

VOLUME
Students will learn to estimate and measure volume using cubic centimetres.



May/June
Students will prepare for and sit the **Functional Skills Entry Level 3**



MATHS Set X Curriculum Map: Year 10

ADDITION & SUBTRACTION

Students will learn to add and subtract two, 4-digit numbers with exchanging and use efficient estimating and checking strategies.



MEASUREMENT

Students will learn how to find the area and perimeter of regular shapes by counting squares.



MULTIPLICATION & DIVISION



Students will learn to multiply and divide using their multiplication tables and understand that multiplication and division are the inverse of each other. Students will study the 3, 6, 9, 7, 11 & 12 times table.

AUTUMN TERM

NUMBER Place value

Students will become confident with numbers up to 10,000 and will be able to partition, order, compare & round to the nearest 10, 100 & 1000.

October/November
Students will prepare for and sit the **Functional Skills Entry Level 1 Exam**



NUMBER



Fractions

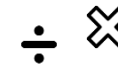
Students will understand the whole, mixed numbers and improper fractions. Students will also learn to add and subtract fractions and find equivalent fractions.

MEASUREMENT



Students will learn how to measure using kilometres and metres and be able to find the perimeter of rectangles and other polygons.

MULTIPLICATION & DIVISION



Students will continue to develop their understanding of multiplication and division and will begin to apply their knowledge to factors, multiplying and dividing by 10, 100 & 1000, and use informal written methods to multiply and divide 2-digit numbers by 1-digit numbers.

SPRING TERM

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Decimals

Students will study tenths and hundredths as decimals and use this knowledge to divide a 1-digit number by 10.

SUMMER TERM

February/March
Students will prepare for and sit the **Functional Skills Entry Level 2 Exam or resit the Entry Level 1**



Year 10 Set 3 students complete the KS2 curriculum and work towards passing their Pearson Edexcel Functional Skills Entry Level 2 exam. Students will have 3 opportunities to sit this exam throughout the year. As preparation, students will initially sit the Functional Skills Entry Level 1/2 Exam. This will enable them to gain exam practise and allow us to assess areas of strength and areas for further growth.

MEASUREMENT



Students will study units of mass, capacity & temperature, money and time in real-life contexts.

GEOMETRY



Students will study 2-D shapes, symmetry and position and direction, including coordinates on a grid.



STATISTICS



Students will study bar graphs, line graphs, lists and tables and be able to interpret and extract information from these. Students will also learn to read scales to the nearest labelled division.

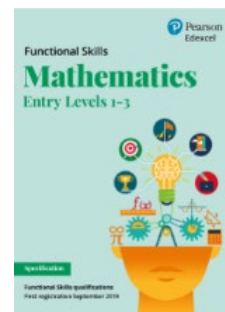
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NUMBER

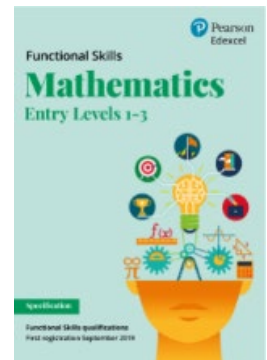
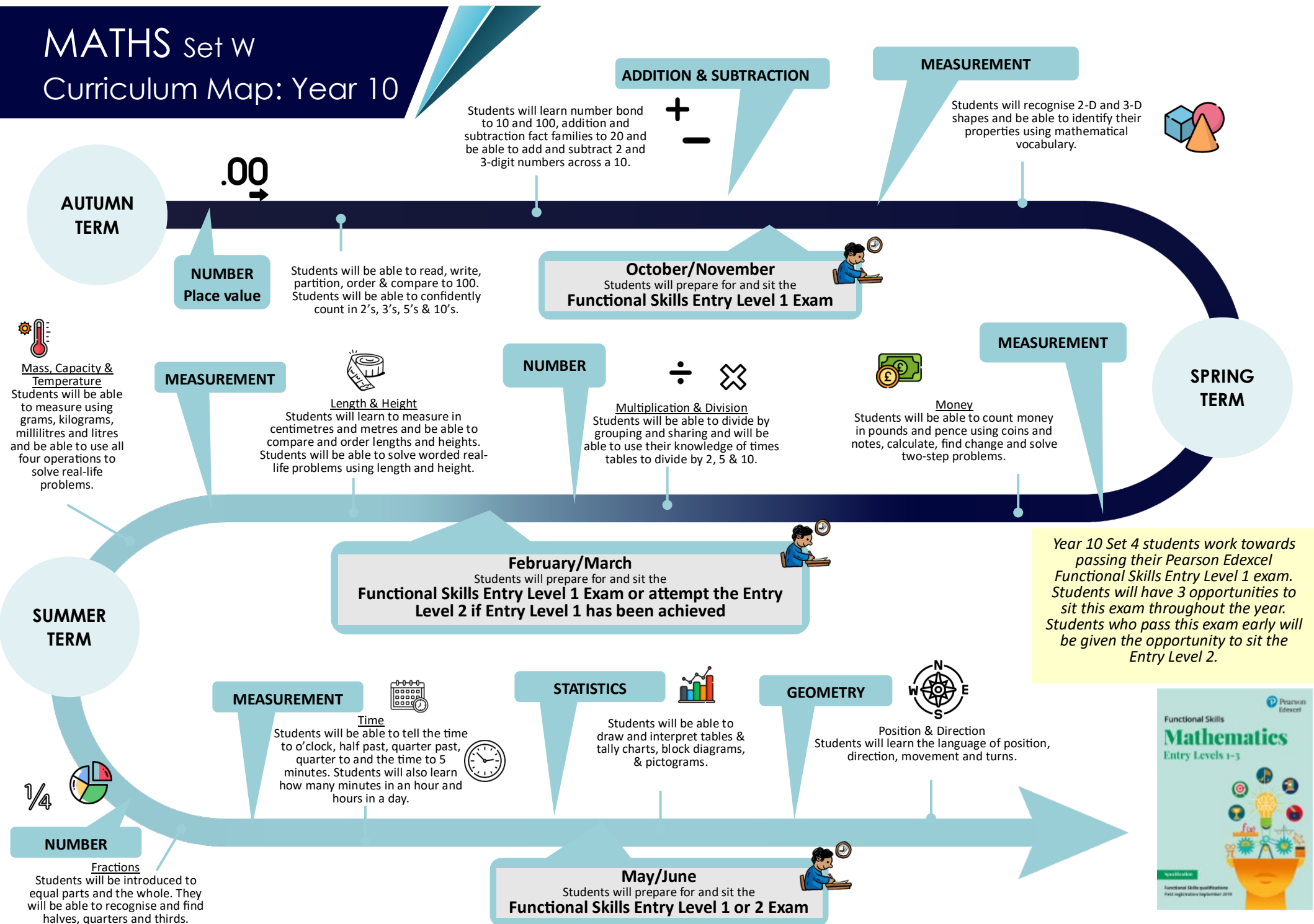
Decimals

Students will partition, compare, order and round decimals To the nearest whole number. Students will also understand halves and quarters as decimals.

May/June
Students will prepare for and sit the **Functional Skills Entry Level 2 Exam.**



MATHS Set W Curriculum Map: Year 10



MATHS Set V

Curriculum Map: Year 10

HTU
354

AUTUMN TERM

NUMBER
Place value

Students will be able to read, write, partition, order & compare to 100. Students will be able to confidently count in 2's, 3's, 5's & 10's.

ADDITION & SUBTRACTION

Students will learn number bond to 10 and 100, addition and subtraction fact families to 20 and be able to add and subtract 2 and 3-digit numbers across a 10.

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MEASUREMENT

Students will recognise 2-D and 3-D shapes and be able to identify their properties using mathematical vocabulary.



October/November
Students will prepare for and sit the **Functional Skills Entry Level 1 Exam**



MEASUREMENT



Mass, Capacity & Temperature
Students will be able to measure using grams, kilograms, millilitres and litres and be able to use all four operations to solve real-life problems.



Length & Height
Students will learn to measure in centimetres and metres and be able to compare and order lengths and heights. Students will be able to solve worded real-life problems using length and height.

NUMBER

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Multiplication & Division
Students will be able to divide by grouping and sharing and will be able to use their knowledge of times tables to divide by 2, 5 & 10.



MEASUREMENT

Money
Students will be able to count money in pounds and pence using coins and notes, calculate, find change and solve two-step problems.

SPRING TERM

SUMMER TERM

February/March
Students will prepare for and sit the **Functional Skills Entry Level 1 Exam or attempt the Entry Level 2 if Entry Level 1 has been achieved**



MEASUREMENT



Time
Students will be able to tell the time to o'clock, half past, quarter past, quarter to and the time to 5 minutes. Students will also learn how many minutes in an hour and hours in a day.

STATISTICS



Students will be able to draw and interpret tables & tally charts, block diagrams, & pictograms.

GEOMETRY



Position & Direction
Students will learn the language of position, direction, movement and turns.



NUMBER

Fractions
Students will be introduced to equal parts and the whole. They will be able to recognise and find halves, quarters and thirds.

May/June
Students will prepare for and sit the **Functional Skills Entry Level 1 or 2 Exam**



Year 10 Set 5 students work towards passing their Pearson Edexcel Functional Skills Entry Level 1 exam. Students will have 3 opportunities to sit this exam throughout the year.

