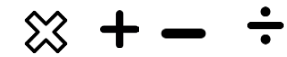


MATHS Set Z

Curriculum Map: Year 11

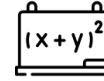


AUTUMN TERM

ALGEBRA

Students will become fluent in the following number topics:

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

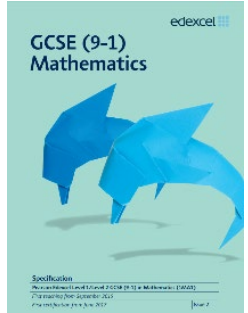


NUMBER

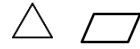
Students will become fluent in the following number topics:

- 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.

November GCSE Mock Exams



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
- Volume

RATIO

Students will become fluent in the following topics:

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



NUMBER

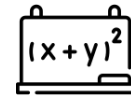
Students will continue to study numbers and focus on:

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

SPRING TERM

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:

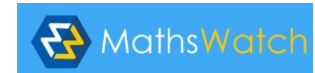
- Frequency trees
- Listing outcomes
- Calculating probabilities
- Mutually exclusive events
- Two-way tables
- Averages and the range
- Venn diagrams
- Pie charts
- Mean average

Throughout Year 11, Set 1 GCSE Maths students continue their preparations for their GCSE. They will complete practise papers and questions and revise topics which they studied in Year 10.

Online Learning:

All students have access to **Mathswatch**. Homework is set here and there are videos which help tutor the students if they get stuck.

May/June GCSE Exams



MATHS Set Y

Curriculum Map: Year 11



Students will become fluent in the following number topics:

- Ordering integers & decimals
- Interpreting real-life tables
- Adding, subtracting, multiplying & dividing integers.
- Money in real-life
- Negatives in real-life
- Fraction, decimal & percentage equivalents.
- Factors, multiples & Primes
- Powers and indices.



MEASUREMENT

Students will become fluent in the following number topics:

- Perimeter of rectilinear shapes & polygons
- Area of rectangles & compound shapes

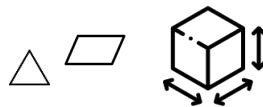


Place Value, Decimals & Percentages

AUTUMN TERM

Students will become fluent in the following topics:

- Geometric definitions for polygons
- Symmetry
- Tessellations & congruency
- Angles
- Properties of 3-D shapes
- Nets
- Transformations
- Area & perimeter of triangles, parallelograms & trapeziums.
- Metric conversions
- Coordinates
- Volume
- Circle definitions
- Position & Direction



GEOMETRY

November GCSE Mock Exams



Students will continue to study numbers and focus on:

- Extracting information from lists and diagrams
- Interpreting information
- Make comparisons and record changes from different formats, including bar charts and simple line graphs.

STATISTICS

SPRING TERM

SUMMER TERM

.00

NUMBER

Students will become fluent in the following topics:

- Recognise and continue sequences with decimals.
- Read & write decimals to two decimal places.
- Understand negative numbers
- Count through zero
- Find the difference.



Students will become fluent in the following number topics:

- Converting units – g/kg, l/ml/m/mm/cm
- Convert units of time including reading from analogue and digital clocks and 24 hour clock.
- Calculate with money, using correct decimal notation and symbols for money.



MEASUREMENT



PROBABILITY

Students will become fluent in the following number topics:

- The probability scale
- Tally charts, bar graphs & pictograms
- Frequency trees
- Listing outcomes
- Calculating probabilities
- Mutually exclusive events
- Two-way tables
- Averages and the range
- Pie charts

Students will become fluent in the following number topics:

- Introduction to ratio
- Using ratio for recipes
- Introduction to percentages
- Value for money
- Introduction to proportion

RATIO

May/June GCSE Exams



Online Learning:



All students have access to **Mathswatch**. Homework is set here and there are videos which help tutor the students if they get stuck.

Year 11 Set 2 have completed their Functional Skills Entry Level 3 qualification and will be preparing for their Foundation GCSE Maths Exam. They will be covering Grade 1-3 topics.

MATHS Set X

Curriculum Map: Year 11

NUMBER
Place value, Decimals & Percentages

% .00 →

MEASUREMENT

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



AUTUMN TERM

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

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



SPRING TERM



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

GEOMETRY

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

NUMBER

.00 →

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.



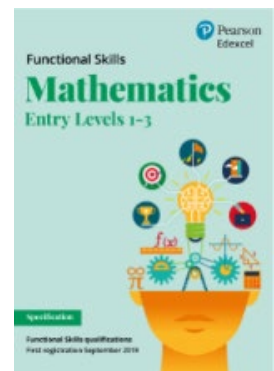
MEASUREMENT

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

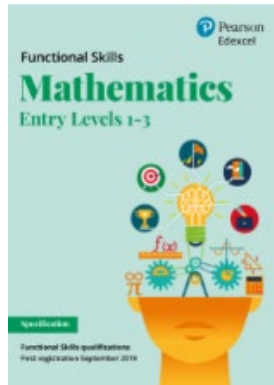
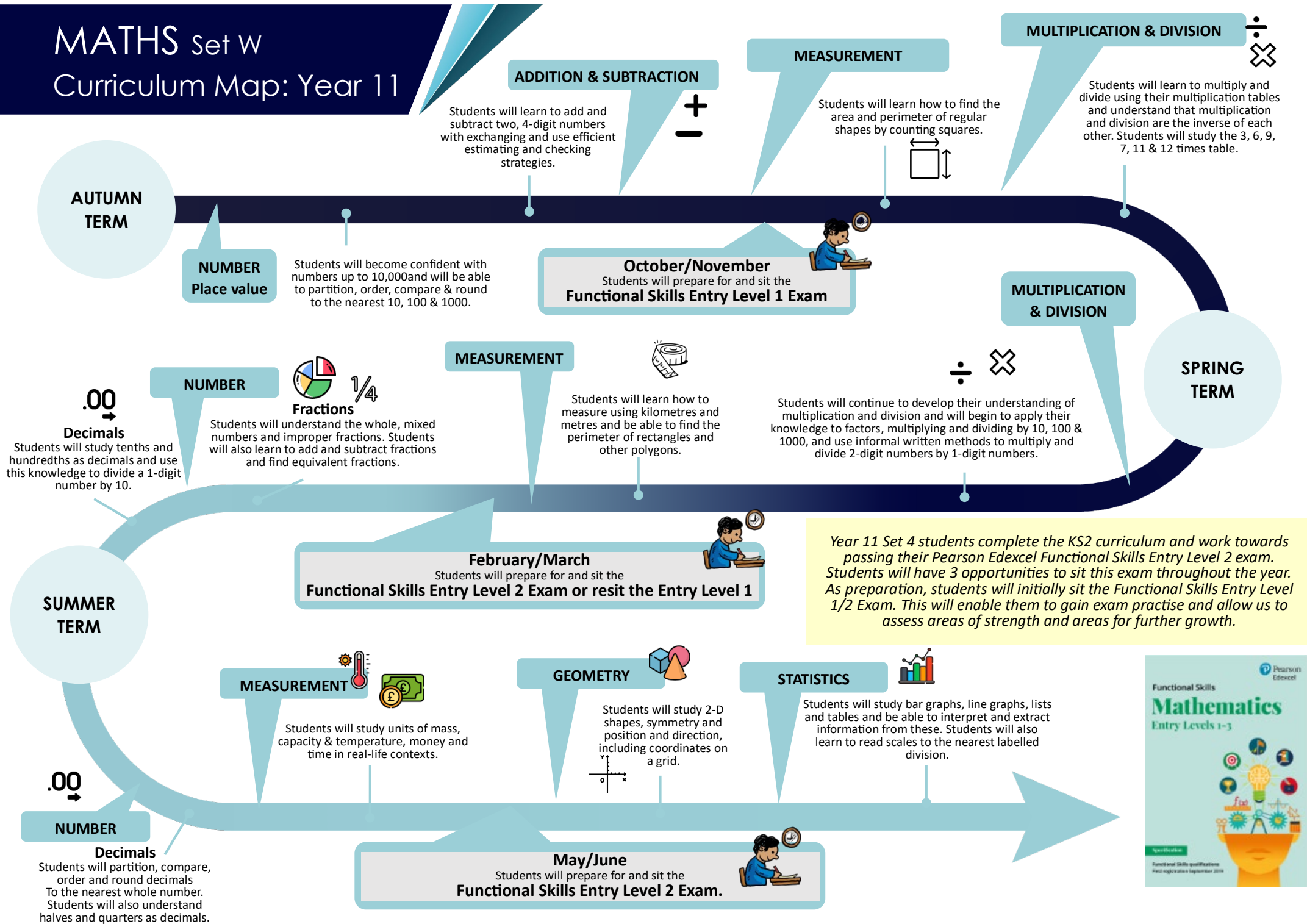


Year 11 Set 3 students complete the KS2 curriculum and work towards passing their Pearson Edexcel Functional Skills Entry Level 3 exam. Students will have 3 opportunities to sit this exam throughout the year.

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



MATHS Set W Curriculum Map: Year 11



MATHS Set V

Curriculum Map: Year 11

