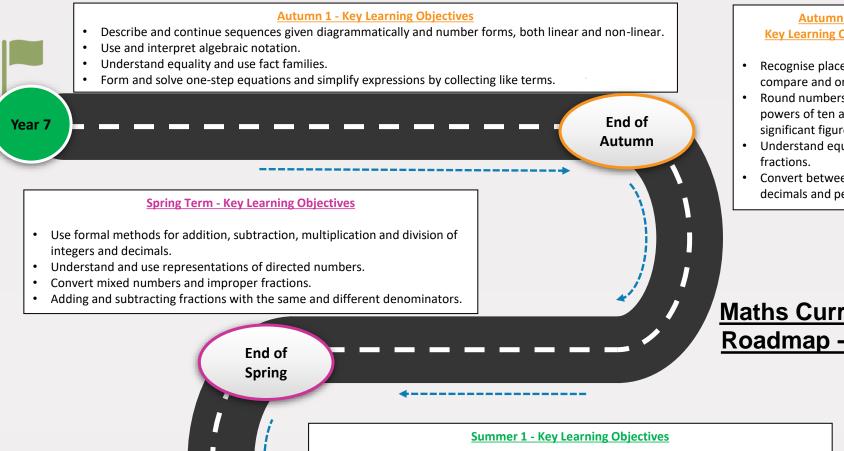
24/25 Maths Curriculum Roadmaps Key Stages 3, 4 and 5





Summer 2 - Key Learning Objectives

- Know and use mental addition, subtraction, multiplication and division strategies for integers, decimals and fractions.
- Understand the probability scale and calculate the probability of a single event.
- Find and use multiples and identify factors of numbers and expressions.
- Calculate the HCF and LCM using common multiples and Venn diagrams.

Autumn 2 -**Key Learning Objectives**

- Recognise place values and compare and order numbers.
- Round numbers to positive powers of ten and to one significant figure.
- Understand equivalent
- Convert between fractions. decimals and percentages.

Maths Curriculum Roadmap - Year 7

- Draw and measure lines and angles accurately.
- Recognise types of triangle, quadrilateral and other polygons.
- Calculate and use angles at a point, angles on a straight line and vertically opposite angles.
- Calculate missing angles in triangles and quadrilaterals.

End of Summer

Autumn 1 - Key Learning Objectives Understand the meaning and representation of ratio.

- Divide an amount into a given ratio.
- Solve problems involving direct proportion.
- Explore relationships between similar shapes.

Year 8

End of Autumn Autumn 2 -

Key Learning Objectives

Work with coordinates with all

Identify and draw lines that are

Read and interpret grouped,

ungrouped frequency tables. Construct sample spaces for one

Find probabilities from a sample

End of

Summer

Find probabilities from a Venn

Draw and interpret scatter graphs.
Understand and describe linear

four coordinates.

correlation.

or more events.

diagrams.

space/two-way tables.

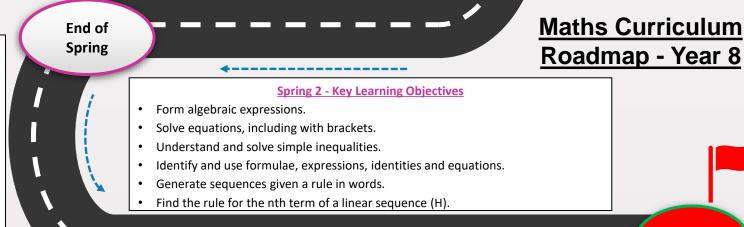
parallel to the axes.

Spring 1 - Key Learning Objectives

- Simplifying algebraic expressions by multiplying/dividing indices.
- Exploring powers of powers (H).
- Convert fluently between key fractions decimals and percentages.
- Compare and order numbers in standard form.
- Add, subtract, multiply/divide numbers in standard form.
- Round numbers to powers of 10 and 1 significant figure/given number of decimal places.

<u>Summer 1 - Key Learning</u> <u>Objectives</u>

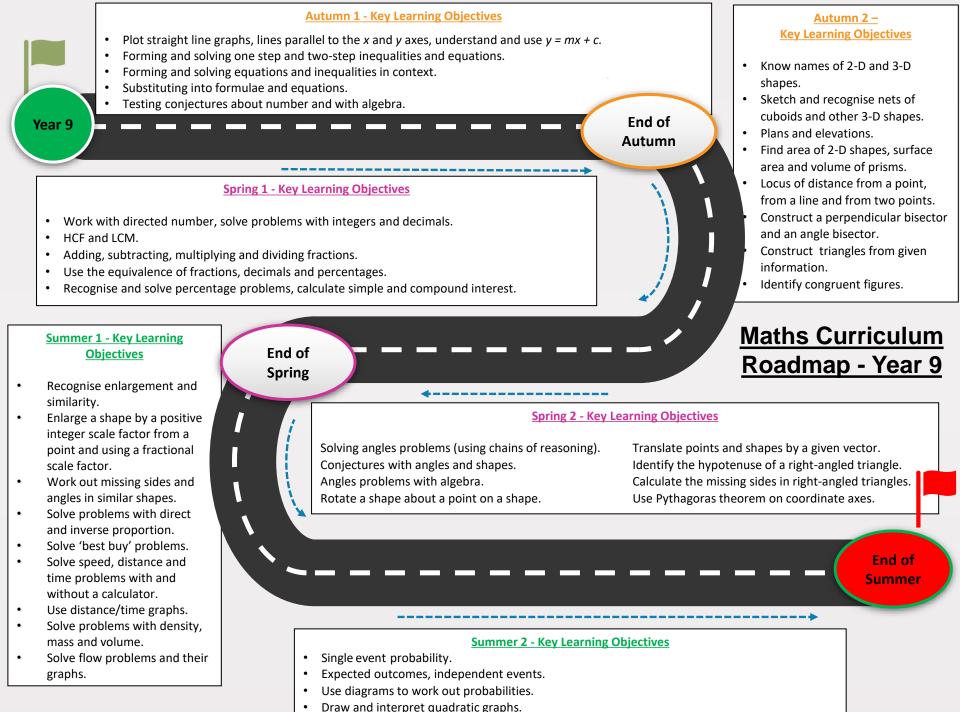
- Understand and use basic angle rules and notation.
- Investigate angles between parallel lines and the transversal.
- Identify and calculate with alternate and corresponding angles.
- Calculate the area of triangles, rectangles and parallelograms.
- Calculate the area of a trapezium.
- Calculate the perimeter and area of compound shapes.
- · Recognise line symmetry.
- Reflect a shape in a diagonal line.

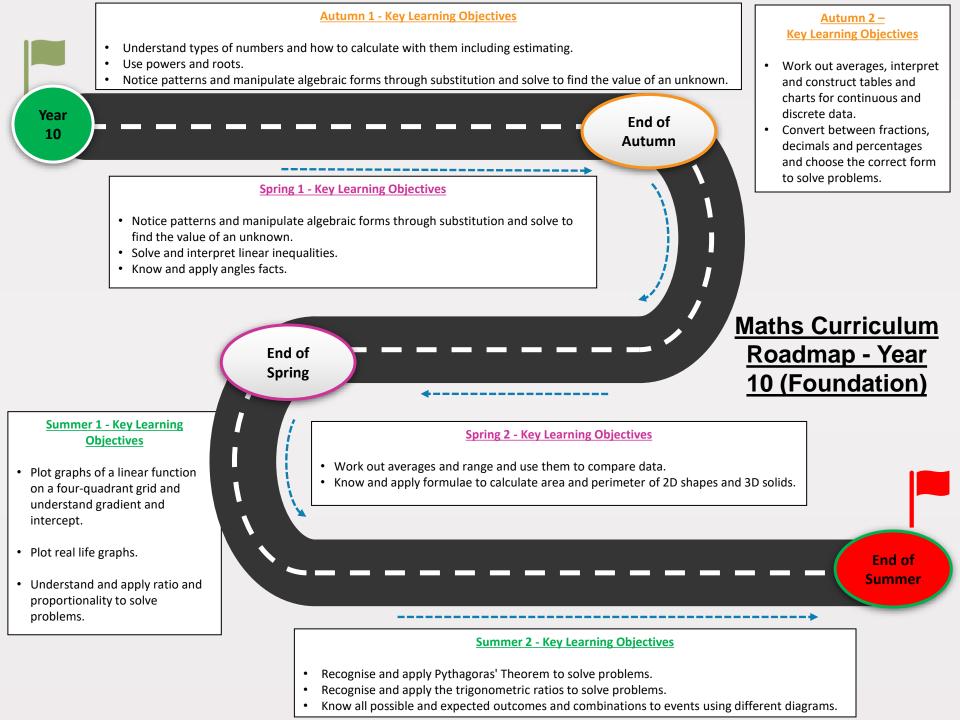


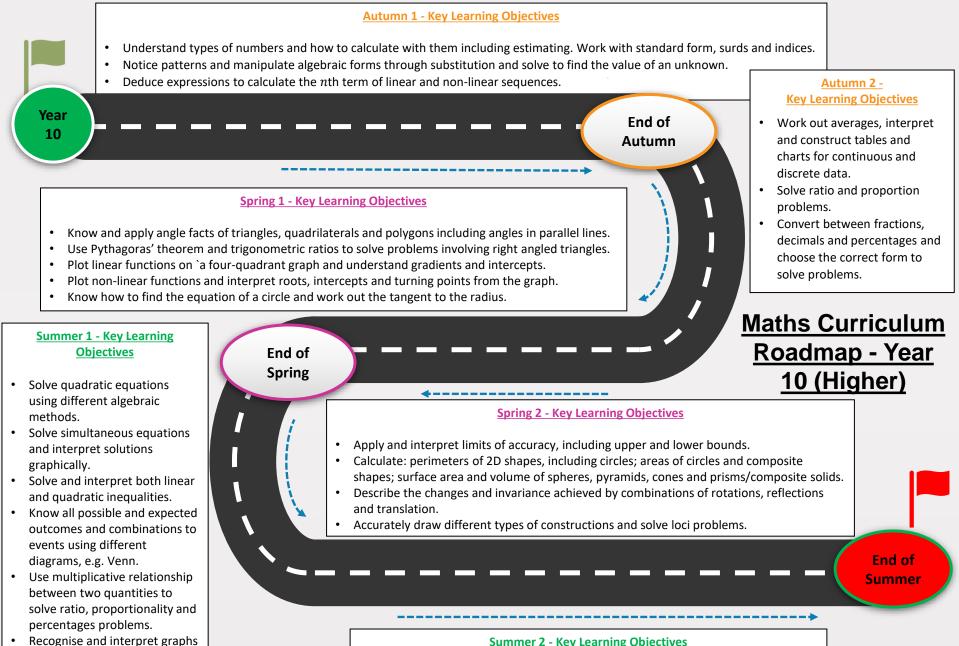
Summer 2 - Key Learning Objectives

- Draw and interpret pie charts.
- Understand and use the mean, median and mode.
- Compare distributions using averages and the range.

Find the mean from a grouped/ungrouped frequency table (H).







Summer 2 - Key Learning Objectives

- Use congruence and similarity properties to solve geometry problems.
- Recognise, sketch, interpret and use transformation of trigonometric functions.
- Know and apply trigonometric formulae to solve geometry problems.
- Know and apply Pythagoras's theorem in 3D shapes.

that illustrate direct and

inverse proportion.

