

 Vern Diagrams Identify fractors and multiples from a list. Understood what is meant by a prime number. List prime numbers and give an example to show a numbers by enumerating it with prime factors. Use a Vern diagram to find the ICF of two numbers by enumerating it with prime factors. Use a Vern diagram to find the ICF of two numbers by enumerating it with prime factors. Understand set notation for Venn diagrams (including listing elements of a set, the initersection of sets and the entity set). Understand the notation denoing the complement of a set and what regions of the Venn diagram this would include. Data Analysis Calculate measures of central tendency (mean, median and mode) from a list of numbers. Understand which measures of central tendency (mean, median and mode) from a list of numbers. Calculate measures of central tendency (mean, median and mode) from a list of numbers. Calculate measures of central tendency (mean, median and mode) from a list of numbers. Understand which measures of central tendency (mean, median and mode) from a list of numbers. Understand which measures of central tendency (mean, median and mode) from a list when an average is given. Understand which measures of central tendency table. Understand which measures of central tendency wate. Understand why we can only estimate the mean from a grouped frequency table. Understand why we can only estimate the mean from a grouped frequency table. Understand why we can entry estimate the mean from a grouped frequency table. Understand why we can entry estimate the mean from a grouped frequency table.<	HAL	F TERM 1: Venn Diagrams and Data Analysis		
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 bit the first and the dangers of extrapolation. 	_	Understand why we can only estimate the mean from a		38.7. The girls also score more consistently as
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- Understand the dangers of extrapolation.		Identify the class interval in which the median falls in a grouped frequency table. Describe and compare distributions. Calculate the angle needed to represent a frequency in a pie chart. Accurately draw a pie chart from a frequency table. Read and interpret proportions from a pie chart. Calculate frequencies from a pie chart when the total frequency is given. Understand what is meant by the term bivariate data and how we can represent this graphically. Draw scatter graphs for bivariate data using appropriate scales. Identify the correlation on a scatter graph and understand what relationship this suggests between the two variables. Draw a line of best fit and use it for estimations		Homework – (Extended Do Now Topics) 1. Factors and multiples 2. Prime numbers 3. Venn diagrams 4. Averages 5. Frequency tables 6. Grouped frequency tables 7. Pie charts 8. Scatter graphs
		Identify the class interval in which the median falls in a grouped frequency table. Describe and compare distributions. Calculate the angle needed to represent a frequency in a pie chart. Accurately draw a pie chart from a frequency table. Read and interpret proportions from a pie chart. Calculate frequencies from a pie chart when the total frequency is given. Understand what is meant by the term bivariate data and how we can represent this graphically. Draw scatter graphs for bivariate data using appropriate scales. Identify the correlation on a scatter graph and understand what relationship this suggests between the two variables. Draw a line of best fit and use it for estimations (interpolation).		Homework – (Extended Do Now Topics) 1. Factors and multiples 2. Prime numbers 3. Venn diagrams 4. Averages 5. Frequency tables 6. Grouped frequency tables 7. Pie charts 8. Scatter graphs
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UALE TEDM 2: Algebraic Manipulation and Lincon Graphs						
 HALF TERM 2: Algebraic Manipulation and Linear Graphs Algebraic Manipulation Multiplying out a single bracket involving negative coefficients and laws of indices. Multiplying out double brackets (with a coefficient of 1 on the variables) and simplifying the resulting expression if 		Students will read worded problems – with pronunciation corrected when necessary. Gradient y-intercept				
 possible. Multiplying out double brackets involving coefficients greater than 1 on the variable. Multiplying out a bracket that is being squared. Multiplying out three brackets and simplifying the resulting expression. Factorise a quadratic expression into 2 brackets when the coefficient of x is 1 and all terms are positive. 		Students will complete a 'What a bad one looks like' known as WABOLL; an incorrectly answered question. Students are required to identify the misconceptions and provide a written explanation in their own words.				
 Factorise a quadratic expression into 2 brackets when the coefficient of x is 1. Factorise a quadratic expression into 2 brackets when the coefficient of x is greater than 1. 		and concepts. e.g. (y+1) ² can't be y ² + 1 because it means (y+1) multiplied by itself; (y+1)(y+1).				
 Linear Graphs Plot a linear graph in the form y=mx+c (positive m) by creating a table of values. Plot a linear graph in the form y=mx+c (negative m) by creating a table of values. Check whether a co-ordinate lies on a line by using substitution. Plot a linear graph when given an equation that first needs rearranging. Investigate the connection between the equation of a line and key points on the graph. Identify the gradient and y-intercept from the equation of a line. Identifying the y-intercept from a ready drawn graph. Calculating a positive gradient from a graph with a unit scale. Calculating gradient from a graph with any scale. Understanding that gradient is a rate of change Naming the equation on a given line on a co-ordinate grid. 		Homework – (Extended Do Now Topics Including HT1, topics to include a variety from) 1. Expanding brackets 2. Simplifying expressions 3. Factorising expressions 4. Linear graphs 5. Equation of a straight line				



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CURRICULUM MAP FOR MATHEMATICS YEAR 9

HALF TERM 3: Simultaneous Equations and Compound Measures **Simultaneous Equations** Change the subject of an equation by rearranging. Solve a pair of simultaneous equations by substitution when both equations have the same subject. Solve a pair of simultaneous equations when they have a variable with the same coefficient by eliminating that variable. Solve a pair of simultaneous equations when they do not have a variable with the same coefficient by eliminating a variable. Form and solve a pair of simultaneous equations from a worded problem. Understand that the co-ordinates of the point of intersection of two linear graphs are the solutions when solving the equations simultaneously. **Compound Measures** Calculate speed, distance and time and use appropriate units for each. Model journeys graphically by creating distance time graphs. Identify stationary sections of journeys from a distance time graph. Understand how we can represent a two-way journey on a distance time graph. Read and interpret distance time graphs. Understand that the gradient represents the rate of change of distance over time on a distance time graph, which is speed. Have appreciation that the gradient on a distance time graph is an average speed and the actual speed of a journey may not have been constant. Model journeys graphically by creating speed time graphs. Understand that the gradient represents the rate of change of speed over time on a speed time graph, which is acceleration.





HALF TERM 4: Graphs and Proportion

Graphs

- Plotting a quadratic graph from an equation by substituting positive integers into a table of values.
- Plotting a quadratic graph from an equation by substituting into a table of values.
- Using a quadratic graph (ready drawn or once plotted) to find approximate solutions to equations including a quadratic's roots.
- Check the validity of approximate solutions from graphs by substituting them into the equation being solved.
- Plotting exponential graphs from an equation using a table of values.
- Using ready draw exponential and reciprocal graphs to find approximate solutions to equations.

Proportion

- Use simple direct proportion to find single amounts or a multiple of an amount.
- Understand the language of proportionality and how direct proportion can be written as a linear function once the "unit cost" has been calculated.
- *Refer to the "unit cost" as a constant of proportionality and denote it as k.*
- Write linear functions representing direct proportion.
- Use linear functions for direct proportion.
- Identify graphs representing direct proportion.
- Write linear functions for inverse proportion.
- Use linear functions for inverse proportion.
- Identify graphs representing inverse proportion.



Students will read worded problems – with pronunciation corrected when necessary. Quadratic *Exponential Reciprocal* Direct proportion Unit cost *Constant of proportionality Inverse proportion*



Students will complete a 'What a bad one looks like' known as WABOLL; an incorrectly answered question. Students are required to identify the misconceptions and provide a written explanation in their own words.

Students can justify why they think two things are in direct proportion or not. For example, a taxi fare is not directly proportional to the distance travelled as when I enter the taxi there is already a charge and I havn't travelled anywhere.



Students will need to verbally the relationship between two variables. For example, what would you expect to happen to someones wages as they work more hours? What would you expect to happen to the time taken to complete a job if more people are working on it?

Homework – (Extended Do Now Topics Including HT3, topics to include a variety from)

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Drawing quadratic graphs
 Finding the roots of a quadratic 3.
 Direct proportion



HALF TERM 5: Right-Angled Triangles

Pythagoras

- Identify the hypotenuse of a right-angled triangle.
- Understand that the hypotenuse is always opposite the largest angle in the triangle; the right angle.
- Use Pythagoras' Theorem to calculate the length of a hypotenuse when given the length of the other two sides in the triangle.
- Use Pythagoras' Theorem to calculate a smaller side of a right-angled triangle.
- Use Pythagoras' Theorem to check whether a triangle contains a right angle.
- Use Pythagoras' Theorem to calculate the length of a line segment on a co-ordinate grid.
- Model worded problems to apply Pythagoras' Theorem to.

Trigonometry

- Identify the hypotenuse, opposite and adjacent sides in a right-angled triangle relative to a given angle.
- Understand that although the hypotenuse is always the longest side, the opposite and adjacent can move depending on which angle we are concerned with.
- Identify which trigonometric function can be used given the sides and/or angle that has been given.
- Understand that each trigonometric function has an inverse, and are denoted as sin⁻¹, cos⁻¹ and tan⁻¹.
- Calculate a missing side in a right angled triangle when given an angle and another side.
- Calculate a missing angle in a right-angled triangle when given two sides.
- Decide whether to use Pythagoras' Theorem or trigonometry for problems involving right-angled triangles.
- Model worded problems to apply trigonometry to.



Students will read worded problems – with pronunciation corrected when necessary.

Hypotenuse Opposite Adjacent Trigonometric function



Students will complete a 'What a bad one looks like' known as WABOLL; an incorrectly answered question. Students are required to identify the misconceptions and provide a written explanation in their own words.



Students will need to verbally explain key words and concepts. e.g. this triangle doen't contain a right angle because when I square the two shorter sides and add them together it's not the same as the hypotenuse squared.



Homework – (Extended Do Now Topics Including Term 2, topics to include a variety from)

- 1. Labelling a right-angled triangle
- 2. Using Pythagoras' Theorem
- 3. Choosing the correct trigonometric function
- 4. Using Trigonometry to find a missing length

5. Using Trigonometry to find a missing angle



HALF TERM 6: Accuracy and Bounds of Calculations		
 Round decimals to a given number of decimal plac Round decimals and integers to a number of signif figures. Understand the difference between rounding and truncating. Truncate decimals to a given number of decimal place 	res. Ficant	Students will read worded problems – with pronunciation corrected when necessary. Truncate Upper bound Lower bound Error interval
 Describe the benefits and drawbacks of truncating than rounding. Use a number line find the upper bound of a numl rounded to a number of decimal places or significating figures. Use a number line find the lower bound of a number rounded to a number of decimal places or significating figures. 	per when ant ber when ant	Students will complete a 'What a bad one looks like' known as WABOLL; an incorrectly answered question. Students are required to identify the misconceptions and provide a written explanation in their own words.
 Write the error interval for a rounded number as a inequality. Calculate an upper or lower bound for a calculatio Application to previously taught topics. 	n.	Students will need to verbally explain key words and concepts. e.g. 2.56789 rounds to 2.6 to 1 dp but truncates to 2.5 to 1dp.
	Ĩ	 Homework – (Extended Do Now Topics Including HT5, topics to include a variety from) 1. Rounding to a given number of decimal places 2. Rounding to a given number of significant figures 3. Finding the upper and lower bounds of a number