



Year 7 set 1&2 Maths Learning Journey

When?	Chapter	Key Learning Objectives Key Questions	Unit assessment
HALF TERM 2	<p>CH 5: Congruent Shape</p> <p>CH 6: Surface Area and Volume of Prisms</p> <p>CH 7: Graphs</p> <p>CH 8: Number</p> <p>CH 9: Interpreting data</p>	<ul style="list-style-type: none"> • use relative frequency to estimate probabilities <p>Chapter 4: Percentages</p> <ul style="list-style-type: none"> • to write one quantity as a percentage of another • to use a multiplier to calculate a percentage change • to work out a change in value as a percentage increase or decrease <p>Chapter 5: Congruent shapes</p> <ul style="list-style-type: none"> • recognise congruent shapes • know the conditions for recognising congruent triangles • solve geometrical problems using congruent triangles <p>Chapter 6: Surface area and volume of prisms</p> <ul style="list-style-type: none"> • convert metric units for area and volume • calculate the surface area of a prism • calculate the volume of a prism <p>Chapter 7: Graphs</p> <ul style="list-style-type: none"> • how to work out the gradient of a linear graph • how to work out an equation of the form $y = mx + c$ from its graph • how to draw graphs of quadratic equations • how to solve a quadratic equation from a graph • how to draw graphs to illustrate real life situations <p>Chapter 8: Number</p>	<p>EOC 3 Test covering</p> <ul style="list-style-type: none"> • Mutually exclusive outcomes and exhaustive outcomes • sample space • Estimated of probability <p>EOC 4 Test covering</p> <ul style="list-style-type: none"> • Find a percentage of a number • Percentage increase and decrease • Percentage change <p>EOC 5 Test covering</p> <ul style="list-style-type: none"> • Congruent triangles <p>EOC 6 Test covering</p> <ul style="list-style-type: none"> • Surface area of prisms • Volume of prisms

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HALF TERM 5	CH 14: Circles	<ul style="list-style-type: none"> • how to use ratio to compare lengths, areas and volumes of 2D and 3D shapes • how to enlarge a shape by a fractional scale factor • how to use map scales 	EOC 10 Test covering <ul style="list-style-type: none"> • like terms • expand brackets • use powers
	CH 15: Equations and Formulae	<p>Chapter 12: Fractions and Decimals</p> <ul style="list-style-type: none"> • how to multiply fractions and integers • how to divide with fractions and integers • how to multiply large and small decimal numbers • how to divide large and small decimal numbers 	EOC 11 Test covering <ul style="list-style-type: none"> • ratio of length, area, volume • fractional enlargement • map scales
	CH 16: Comparing data	<p>Chapter 13: Proportion</p> <ul style="list-style-type: none"> • how to solve problems involving direct proportion • graphical and algebraic representations of direct proportion • how to solve problems involving inverse proportion • graphical and algebraic representations of inverse proportion <p>Chapter 14: Circles</p> <ul style="list-style-type: none"> • the names of the parts of a circle • how to calculate the circumference of a circle • how to calculate the area of a circle 	EOC 12 Test covering <ul style="list-style-type: none"> • add, subtract, times, divide fractions • long multiplication & division

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HALF TERM 6		<p>Chapter 15: Equations and Formulae</p> <ul style="list-style-type: none"> • how to solve equations involving brackets and fractions • how to solve equations where the variable occurs more than once • how to rearrange formulae <p>Chapter 16: Comparing Data</p> <ul style="list-style-type: none"> • how to construct grouped frequency tables for data • how to interpret and draw grouped frequency diagrams • how to compare two distributions by using an average and the range • how to select the correct average when analysing data 	<p>EOC 13 Test covering</p> <ul style="list-style-type: none"> • direct proportion • inverse proportion <p>EOC 14 Test covering</p> <ul style="list-style-type: none"> • area and circumference of a circle <p>EOC 15 Test covering</p> <ul style="list-style-type: none"> • solve equations with brackets • equations with the variable on both sides • rearrange formulae <p>EOC 16 Test covering</p> <ul style="list-style-type: none"> • Grouped frequency tables • Draw frequency diagrams • Comparing sets of data • Misleading charts