

Varsity College Year 8 Mathematics – Semester 1, 2024

Week	Date	Topics	Assessment
1	22-26 January O-Week Australia Day PH Fri	<ul style="list-style-type: none"> O Week activities Introduction to unit 	
2	29 Jan-2 Feb	Number <ul style="list-style-type: none"> Use mental strategies and algorithms to do addition, subtraction, multiplication and division with whole numbers. Use the 4 operations with positive and negative integers Use order of operations to solve problems with integers 	
3	5-9 February Swimming Carnival - Thurs	Percentages <ul style="list-style-type: none"> Convert decimals and fractions to percentages Calculate the percentage of a quantity Use percentages to increase and decrease quantities 	
4	12-16 February	<ul style="list-style-type: none"> Apply percentages to financial contexts involving mark up and discount Apply percentages to financial contexts involving the Goods and Services Tax (GST) Apply percentages to financial contexts involving simple interest 	
5	19-23 February	Congruence <ul style="list-style-type: none"> Identify congruent shapes and the corresponding parts Investigate the conditions for congruence to prove two triangles are congruent 	
6	26 Feb-1 Mar GC24 - Wednesday	<ul style="list-style-type: none"> Recall the geometric properties and rules between parallel lines and transversals Recall properties of quadrilaterals related to side lengths, parallel sides, angles, diagonals and symmetry Establish the properties of quadrilaterals using congruent triangles and geometric reasoning 	
7	4-8 March	<ul style="list-style-type: none"> Revision 	
8	11-15 March	<ul style="list-style-type: none"> Exam 	EXAM Lesson 2
9	18-22 March GC24 - Thursday	Algebra <ul style="list-style-type: none"> Recall the language of algebra Create algebraic expressions to represent scenarios Simplify algebraic expressions involving addition and subtraction 	
10	25-29 March Good Friday PH	<ul style="list-style-type: none"> Simplify algebraic expressions involving multiplication and division Simplify algebraic expressions involving a combination of mathematical operations 	
School holidays: Friday March 29 - Sunday April 14			

Term 2, 2024

Week	Date	Topics	Assessment
1	15-19 April Cross Country – Wed	Algebra Continued <ul style="list-style-type: none"> Recap simplifying algebraic expressions Apply Distributive Law to expand algebraic expressions Factorise algebraic expressions and demonstrate the relationship between expanding and factorising 	
2	22-26 April GC24 - Tuesday Anzac Day PH - Thurs	Index Laws <ul style="list-style-type: none"> Use expanded form to establish the connection to index form and apply to index laws Apply index laws individually and in combination using integers and variables 	
3	29 Apr-3 May	<ul style="list-style-type: none"> Apply index laws individually and in combination using integers and variables continued 	
4	6-10 May Labour Day PH - Mon	Pythagoras' Theorem <ul style="list-style-type: none"> Investigate Pythagoras' Theorem and the relationship between the squares of side lengths Identify the sides of a right-angled triangle in relation to Pythagoras' Theorem 	
5	13-17 May	<ul style="list-style-type: none"> Use Pythagoras' Theorem to calculate the length of the hypotenuse Use Pythagoras' Theorem to calculate the length of the shorter sides 	
6	20-24 May	<ul style="list-style-type: none"> Apply Pythagoras' Theorem to practical problems Revision 	
7	27-31 May	<ul style="list-style-type: none"> Exam 	EXAM Lesson 2
8	3-7 June	Ratios and Rates <ul style="list-style-type: none"> Recall determining and simplifying ratios Calculate average rates Apply rates to solve problems involving converting between different units 	
9	10-14 June GC24 - Wednesday	<ul style="list-style-type: none"> Apply rates to calculate average speed, distance or time including conversion between different units Time <ul style="list-style-type: none"> Convert between 12-hour and 24-hour time 	
10	17-21 June Athletics Carnival - Thurs	<ul style="list-style-type: none"> Calculate time differences Investigate time zones in Australia and around the world and convert from one time zone to another Use time zones to solve practical problems involving planning of travel and time differences 	
School holidays: Saturday June 22 - Sunday July 7			