

Turrumurra High School - 2022 - Year 8 - Scope and Sequence

Term 1 2022

| | | Week 1 | Week 2 | Week 3 | Week 4 | Week 5 | Week 6 | Week 7 | Week 8 | Week 9 | Week 10 |
|------|---------------------------|---|---|--|---|---|------------------------------------|--------------------------------------|--------|--------|--------------------------------------|
| 31/1 | 1/2 | | 7/2 | 14/2 | 21/2 | 28/2 | 7/3 | 14/3 | 21/3 | 28/3 | 4/4 |
| SDD | Immersion week activities | Rational vs Irrational Numbers | SWIMMING CARNIVAL | Topic 1: Rational vs Irrational Numbers | | Topic 2: Right-Angled Triangles (Pythagoras) | | Topic 3: Algebraic Techniques | | | Topic 3: Algebraic Techniques |
| | | MA4 5NA, MA4 9NA, MA4 12MG, MA4 1WM, MA4 2WM. | | MA4 5NA, MA4 9NA, MA4 12MG, MA4 1WM, MA4 2WM, MA4 3WM | MA4 16MG, MA4 1WM, MA4 2WM | MA4 8NA, MA4 1WM, MA4 2WM, MA4 3WM | MA4 8NA, MA4 1WM, MA4 2WM, MA4 3WM | MA4 8NA, MA4 1WM, MA4 2WM, MA4 3WM | | | |
| | | Investigate terminating and recurring decimals Connect fractions, decimals and percentages and carry out simple conversions Investigate and use square roots of perfect square numbers Investigate the concept of irrational numbers, including pi | Investigate terminating and recurring decimals Connect fractions, decimals and percentages and carry out simple conversions Investigate and use square roots of perfect square numbers Investigate the concept of irrational numbers, including pi | Investigate Pythagoras' theorem and its application to solving simple problems involving right-angled triangles. Investigate the concept of irrational numbers. | Simplify algebraic expressions involving the four operations Extend and apply the distributive law to the expansion of algebraic expressions Factorise algebraic expressions by identifying numerical factors Factorise algebraic expressions by identifying algebraic factors Apply the distributive law to the expansion of algebraic expressions, including binomials, and collect like terms where appropriate Apply the four operations to simple algebraic fractions with numerical denominators | | | | | | Term 1 Project due |
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Term 2 2022

| | | Week 1 | Week 2 | Week 3 | Week 4 | Week 5 | Week 6 | Week 7 | Week 8 | Week 9 | Week 10 | |
|---------------------|--|---|--------|---|--------|--------|---|--------|------------------------------------|--------|------------------------------------|--|
| | | 25/4 | 26/4 | 27/4 | 28/4 | 29/4 | 30/4 | 1/5 | 2/5 | 3/5 | 4/5 | |
| Anzac Day S.D.D. | <p>Topic 4: Percentages and Financial Mathematics</p> <p>MA4 5NA, MA4 6NA, MA4 1WM, MA4 2WM, MA4 3WM</p> <p>Find percentages of quantities and express one quantity as a percentage of another, with and without the use of digital technologies.</p> <p>Solve problems involving the use of percentages, including percentage increases and decreases, with and without the use of digital technologies</p> <p>Investigate and calculate the Goods and Services Tax (GST), with and without the use of digital technologies</p> <p>Investigate and calculate 'best buys', with and without the use of digital technologies</p> <p>Solve problems involving profit and loss, with and without the use of digital technologies.</p> | Topic 4: Percentages and Financial Mathematics | | Topic 5: Equations | | | Topic 6: Ratio and Rates | | Topic 6: Ratio and Rates | | Topic 6: Ratio and Rates | |
| | | MA4 5NA, MA4 6NA, MA4 1WM, MA4 2WM, MA4 3WM | | MA4 10NA, MA4 11NA, MA4 1WM, MA4 2WM, MA4 3WM | | | MA4 7NA, MA4 1WM, MA4 2WM, MA4 3WM | | MA4 7NA, MA4 1WM, MA4 2WM, MA4 3WM | | MA4 7NA, MA4 1WM, MA4 2WM, MA4 3WM | |
| | | Athletics Carnival TBC | | Solve simple linear equations Solve linear equations using algebraic techniques and verify solutions by substitution Solve simple quadratic equations | | | Solve problems involving simple ratios Solve a range of problems involving ratios and rates, with and without the use of digital technologies Investigate, interpret and analyse graphs from authentic data | | Term 2 Assessment ? Project | | | |
| | | NAPLAN | | | | | | | | | | |

Term 3 2022

| Week 1 | Week 2 | Week 3 | Week 4 | Week 5 | Week 6 | Week 7 | Week 8 | Week 9 | Week 10 |
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2022 Year 8 Scope and Sequence

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|----------------|---|------|-----|---|------|---|------|-----|-----------------|---|--|
| 18/7 | 19/7 | 25/7 | 1/8 | 8/8 | 15/8 | 22/8 | 29/8 | 5/9 | 12/9 | 19/9 | |
| S. D. D. | MA4 11NA, MA4 1WM, MA4 3WM | | | Topic 8: Probability | | Topic 9: Data Collection and Representation and Single Variable Data | | | Year 8 Camp ??? | Topic 9: Data Collection and Representation and Single Variable Data | |
| | Create algebraic expressions and evaluate them by substituting a given value for each variable Plot linear relationships on the Cartesian plane, with and without the use of digital technologies Solve linear equations using graphical techniques | | | MA4 21SP, MA4 1WM, MA4 2WM, MA4 3WM | | MA4 19SP, MA4 20SP, MA4 1WM, MA4 2WM, MA4 3WM | | | | MA4 19SP, MA4 20SP, MA4 1WM, MA4 2WM, MA4 3WM | |
| | Describe events using language of 'at least', exclusive 'or' (A or B but not both), inclusive 'or' (A or B or both) and 'and' Represent events in two-way tables and Venn diagrams and solve related problems | | | Investigate techniques for collecting data, including census, sampling and observation Explore the practicalities and implications of obtaining data through sampling using a variety of investigative processes Identify and investigate issues involving numerical data collected from primary and secondary sources Construct and compare a range of data displays, including stem-and-leaf plots and dot plots Calculate mean, median, mode and range for sets of data and interpret these statistics in the context of data Investigate the effect of individual data values, including outliers, on the mean and median Describe and interpret data displays using mean, median and range Explore the variation of means and proportions of random samples drawn from the same population | | | | | | | |
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Term 4 2022

| Week 1 | Week 2 | Week 3 | Week 4 | Week 5 | Week 6 | Week 7 | Week 8 | Week 9 | Week 10 | Week 11 |
|---|--------|--------|--------|--------|----------------------------|--|--------|--------|---------|----------------|
| 10/10 | 17/10 | 24/10 | 31/10 | 7/11 | 14/11 | 21/11 | 28/11 | 5/12 | 12/12 | 19/12 20/12 |
| Topic 10: Measurement | | | | | Topic 10: continued | Topic 11: Properties of Geometric Figures | | | | |
| MA4 12MG, MA4 13MG, MA4 14MG, MA4 1WM, MA4 2WM, MA4 3WM | | | | | | MA4 17MG, MA4 1WM, MA4 2WM, MA4 3WM | | | | |

2022 Year 8 Scope and Sequence

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|---|--|--|---|-------------------------------|------------------------|--|
| <p>Use formulas to solve problems involving circumference</p> <p>Find areas of trapeziums, rhombuses and kites</p> <p>Investigate the relationship between features of circles, such as the area and the radius; use formulas to solve problems involving area</p> <p>Draw different views of prisms and solids formed from combinations of prisms</p> <p>Choose appropriate units of measurement for volume and convert from one unit to another</p> <p>Develop the formulas for the volumes of rectangular and triangular prisms and of prisms in general; use formulas to solve problems involving volume</p> <p>Calculate the volumes of cylinders and solve related problems</p> | <p>Study Skills and Semester 2 Exam</p> | | <p>Use the properties of special triangles and quadrilaterals to solve simple numerical problems with appropriate reasoning</p> <p>Define congruence of plane shapes using transformations</p> <p>Develop the conditions for congruence of triangles</p> <p>Establish some of the properties of quadrilaterals using congruent triangles and angle properties, and solve related numerical problems using reasoning</p> | <p>School Holidays (SDDs)</p> | <p>School Holidays</p> | |
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1 School Photos

2 Maths Competition