

Pinehurst Junior College Mathematics Overview Year 7 2017

Mathematics is the exploration and use of patterns and number and the relationships between them. By studying Mathematics students develop the ability to think creatively, critically, strategically and logically.

Term 1	Term 2
<u>Number and Calculation</u> (6 weeks) <ul style="list-style-type: none"> • Number Investigation • Assessment Week 2- PAT/Number • Computation • Fractions • Decimals • Percentages/ratio • Negative integers • Powers/roots • Problem Solving • End of Unit Test- Week 6 <u>Algebra</u> (4 weeks) <ul style="list-style-type: none"> • Assessment-Algebra • Equations/expressions • Formulae • Linear functions • Sequences and rules • End of Unit Test- Week 10 <p style="text-align: right;">(Camp Week 4)</p>	<u>Measure</u> (4 weeks) <ul style="list-style-type: none"> • Assessment- Measures • Area and perimeter • Length, mass and capacity • 12 and 24 hour time • End of Unit Test- Week 4 <u>Geometry</u> (5 weeks) <ul style="list-style-type: none"> • Assessment- Week 5 • 2D & 3D shapes • Symmetry /transformations • Angles • End of Unit Test Week 9
Term 3	Term 4
<u>Handling Data</u> (7 weeks) <ul style="list-style-type: none"> • Assessment- Week 1 • Statistical investigation • Analysing and reporting on data • Probability • End of Unit Test- Week 7 <u>Number</u> (2 weeks) <ul style="list-style-type: none"> • Problem solving 	<u>All areas</u> (2 weeks) <ul style="list-style-type: none"> •Revision in all areas END OF YEAR EXAMINATION - WEEK 4 <u>Problem Solving/Statistics/Algebra/Geometry</u> <ul style="list-style-type: none"> • Investigations/practical activities <u>Preparation for Year 8</u>

Assessment

Each unit of work (e.g. Number, Algebra) will be pre tested to identify areas of strength and need. At the conclusion of the unit, a post-test is completed and analysed. The end of year examination covering the full year's work is in Term 4.

Homework Expectations

Homework related to the concepts covered in class is issued weekly. Generally, it is expected students complete 30 minutes each week including basic facts learning.