

## Pinehurst Junior College Mathematics Overview Year 8 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
Number and Calculation (6 weeks)	
Number Investigation	Geometry (5 weeks)
<ul> <li>Assessment- Week 2 PAT/Number</li> </ul>	Assessment- Geometry
Computation	Angles and angle properties
Fractions	Shape and geometric reasoning
Decimals	Construction
Percentages/ratio	Transformations- reflect, rotate, translate
Problem Solving	Transformations- enlargement, scale drawings
<ul> <li>Integers, powers, roots</li> </ul>	End of unit test- Week 5
Rounding	
End of unit test- Week 6	Measures (4 weeks)
1 (5	Assessment- Measures
Algebra (5 weeks)	Length and mass
Assessment- Algebra	Time and rates of change
• Equations	Area, perimeter and volume
Formulae/expressions	End of unit test
Linear functions	
Sequences and rules	
End of unit test- Week 10	
Term 3	Term 4
Handling Data (7 weeks)	All areas (2 weeks)
Assessment- Handling Data     Assessment- Handling Data	Revision in all areas
Statistical investigation	END OF VEAD EVANABLE TION (NV. 1.4)
Presenting, analysing and reporting on	END OF YEAR EXAMINATION (Week 4)
data	Problem Solving/Statistics/Algebra/Geometry (6
Probability  Find of unit book Month 7	weeks)
End of unit test- Week 7	Investigations/practical activities
Number (2 weeks)	2203
Problem solving	Preparation for Year 9
(Camp Week)	
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## Assessment

Each unit of work (e.g. Number, Algebra) is pre-tested to identify areas of strength and need. At the conclusion of the unit, a post-test is completed and analysed by the student and teacher against set criteria. 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 40 minutes each week including basic facts.