



**Bowral High Mathematics Faculty**

**Course Information, Assessment & Reporting Year 7**

**Summary of Year 7 Mathematics – Stage 4**

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	
<b>Term 1</b>	<b>Operations with Numbers</b> <i>Order, read, writes and performs whole number calculations</i>			<b>Angles</b> <i>Measures, constructs, classifies, identifies and names angles</i>		<b>Exploring Whole Numbers</b> <i>Recognises the properties of special groups of whole numbers and applies a range of strategies to aid computation</i>		<b>Properties of Solids</b> <i>Describes, sketches and classifies 3D solids</i>			
<b>Term 2</b>	<b>Integers</b> <i>Compares, orders and calculates with integers</i>			<b>Number Patterns</b> <i>Uses algebra to generalise number patterns</i>			<b>Introduction to Fractions &amp; Decimals, Operating with Fractions</b> <i>Compares, orders and calculates with fractions</i>				
<b>Term 3</b>	<b>Mass &amp; Time</b> <i>Selects, uses and performs calculations with units of mass and time</i>		<b>Length, Perimeter &amp; Area</b> <i>Uses formulae to calculate perimeter and area</i>		<b>Properties of Geometric Figures</b> <i>Classifies, constructs and determines the properties of triangles and quadrilaterals</i>			<b>Decimals</b> <i>Compares, orders and calculates with decimals</i>			
<b>Term 4</b>	<b>Algebraic Techniques</b> <i>Uses algebraic symbols and works with algebraic expressions</i>				<b>Percentages</b> <i>Compares, orders and calculates with percentages</i>			<b>Linear Relationships</b> <i>Graphs and interprets linear relationships on the number plane</i>			

**Note:**

- All classes will follow the program shown above but the depth and scope of study in each class may vary. Students' pre-existing levels of knowledge, skills and applications will be assessed and relevant outcomes addressed in order to recognize and extend their confidence and skills in mathematics.

**Assessment**

Student achievement will be measured within individual classes and across the whole of Year 7.

- **Within Classes:** student progress in achieving designated outcomes will be assessed, on an ongoing basis, using a variety of tools including teacher observation, homework tasks, assignments, class participation, completion of set tasks and topic tests.
- **Across the whole of Year 7:** student performance relative to the whole of Year 7 will be assessed through their performance in **Major Semester Tests which will be held in week 5, Term 2 and week 5, Term 4.** These tests, along with teacher recommendations, will also be used in determining Mathematics classes for Year 8.

**Reporting**

A student progress report will be provided at the end of each semester. The report for each student will show:-

1. A Grade (A –E), indicating the student's relative performance across the whole of Year 7.

**A – Outstanding Achievement;** The student has an extensive knowledge and understanding of the content and can readily apply this knowledge. In addition, the student has achieved a very high level of competence in the processes and skills and can apply these skills to new situations.

**B – High Achievement:** The student has a thorough knowledge and understanding of the content and a high level of competence in the processes and skills. In addition, the student is able to apply this knowledge and these skills to most situations.

**C – Sound Achievement:** The student has a sound knowledge and understanding of the main areas of content and has achieved an adequate level of competence in the processes and skills.

**D – Basic Achievement:** The student has a basic knowledge and understanding of the content and has achieved a limited level of competence in the processes and skills.

**E – Limited Achievement:** The student has an elementary knowledge and understanding in few areas of the content and has achieved very limited competence in some of the processes and skills.

**U - Fails to meet course requirements in Y7**

2. Grades indicating the level of achievement in each area studied during the semester. These Grades will be based on the individual student's achievement in their class. The areas of assessment in Year 7 are:-

### Year 7 – Semester 1

- Operates with whole numbers. Recognises the properties of special groups of whole numbers and uses these properties to aid computation
- Measures, constructs and classifies angles. Works with angles formed by the intersection of straight lines
- Describes and sketches three-dimensional solids and classifies them according to their properties
- Compares, orders and calculates with positive and negative numbers
- Creates, records, analyses and generalises number patterns using words and symbols

### Year 7 – Semester 2

- Using appropriate units of mass and time in conversion, estimation, measurement and problem solving
- Measuring lengths, calculating perimeters and finding areas of shapes based around squares, rectangles and triangles
- Manipulating, constructing, classifying and determining properties of triangles and quadrilaterals
- Operating with decimals
- Simplifying and operating with algebraic expressions

**The grades will be: Outstanding, High, Sound, Basic, Limited, U** (fails to meet course requirements in Y7), **n/a** (If the student was not at BHS for this work)

3. A personal profile for responsible learning, using the categories; Always, Usually, Sometimes, Rarely.

- Brings required equipment to class / is prepared
- Listens attentively and follows instructions
- Participates positively in class and discussions
- Interacts positively with teachers and students
- Works independently and is self motivated
- Meets homework/assignment deadlines

### Special Notes

- **Homework** will be given on a regular basis and its completion and follow-up is considered to play an important part in building student confidence and skills in Mathematics.
- **Calculators** and their effective use are an important part of the Year 7 Mathematics Course. However, the classroom teacher will determine their appropriate use in the classroom. Students need to be able to complete calculations with and without calculators. We strongly recommend you purchase a calculator through the Finance Office at Bowral High where we sell an approved calculator **at cost price**. This calculator is suitable for use through to Year 12 and beyond. Calculators purchased elsewhere may not have the required features.
- **Calculators may not be used in across the form tests in Year 7 but are required for part of the NAPLAN test in Year 7.**

- **Geometry Equipment:** All students are expected to have a set of geometrical instruments consisting of a pair of compasses, a protractor, a setsquare, a ruler and a pencil. At the moment a geometry set is offered free as a bonus item with the purchase of a calculator through the Finance Office (see above).
- **Work Books:** We recommend students purchase a 240 page, 5mm Grid Book for use in Mathematics. Loose-leaf folders are not permitted in junior Mathematics.
- If, at any time, you would like to discuss your child's progress in Mathematics you may contact their Mathematics Teacher or Mr Reynolds, on 48612255.

**M. Reynolds - Head Teacher Mathematics**