

**AVONSIDE GIRLS HIGH SCHOOL LEVEL 1 MATHEMATICS  
MAT111 COURSE STATEMENT 2009**

*General Aims*

- \* *To develop the skills, concepts, understandings and attitudes which will enable students to cope confidently with the mathematics of everyday life and the world of work*
- \* *To develop a variety of approaches to solving problems*
- \* *To develop the ability to think and reason logically*

**Equipment**

Students are required to have a scientific calculator or a graphics calculator. There is now considerable advantage in having a graphics calculator both in classroom learning and in the external examinations.

**Course Content & Learning Outcomes**

The course offers twenty credits at NCEA Level 1. Achievement standards covered are listed in the Assessment Programme on the next page. At the start of each topic students will be given a handout which will list the learning outcomes (objectives) for the topic. These reflect the Achievement Objectives in Levels 5 & 6 of the National Curriculum.

**Numeracy requirement for NCEA**

Students must have a minimum of 8 credits in Mathematics Achievement Standards or Unit Standards to meet the basic numeracy requirements for their Level 1 National Certificate of Educational Achievement.

**Assessment**

Internal Achievement Standards for Measurement and Statistics will be assessed by the school, one assessment in each of terms 1 & 2. External Achievement Standards will be assessed in the NZQA examination in November. Topic tests and “practice examinations” serve as formative tests - to check on progress and identify learning needs.

**Reassessment**

There will be opportunity for one reassessment for each Internal Achievement Standard. This will be offered to all eligible students regardless of the level of achievement in the first assessment.

**Recording results**

The level of achievement for an assessment will be indicated on the task when it is handed back to students. The class teacher will hold a master copy of the results, however students are encouraged to keep their own record on the tracking sheet provided.

**Appeal procedures**

Any queries about marking decisions should be made to the class teacher when the assessment is handed back to the class. Any formal appeal needs to be made within one school week of receiving a result. Any dispute over the grade for an assessment will be investigated by Mrs Bull (HOD Mathematics) or Ms Lynch (NZQA Liaison in term 1) or Mrs Butler (NZQA Liaison in terms 2, 3 & 4).  
Work done in pencil or with “white-out” corrections cannot be considered for appeals.

**Attendance and Organisation**

If you are absent from class it is your responsibility, when you return, to find out about work missed and any new announcements about assessments. Being well-organised is the key to success. This means bringing calculators and textbooks to class; it also means making time to do homework which is set to help you master the skills covered in class.

**MAT111  
TEACHING & ASSESSMENT PROGRAMME 2009  
STUDENT TRACKING SHEET**

	<i>Achievement Standard details</i>	<i>Achievement Standard descriptor</i>	<i>Assessment timing</i>	<i>Grade achieved</i>
<b>Term 1</b>				
Weeks 1 - 5	<b>Number</b> AS 90151 (v2) External 3 credits	<i>Solve straightforward number problems in context</i>	Topic test (formative)  Week 5	
Weeks 6 - 10	<b>Measurement</b> AS 90149 (v2)	<i>Solve problems involving measurement of everyday</i>	<b>Internal NCEA task</b>	

	Internal 3 credits	<i>objects</i>	<b>Week 9</b> <b>Reassessment week 10</b>	
<b>Term 2</b>				
Weeks 1 - 5	<b>Statistics</b> AS 90193 (v2) Internal 3 credits	<i>Use straightforward statistical methods to explore data</i>	<b>Internal NCEA task</b>  <b>Week 5</b> <b>Reassessment week 6</b>	
Weeks 6 - 10	<b>Algebra</b> AS 90147 (v3) External 4 credits	<i>Use straightforward algebraic methods and solve equations</i>	Topic test (formative)  Week 10	
<b>Term 3</b>				
Weeks 1 - 5	<b>Graphs</b> AS 90148 (v3) External 3 credits	<i>Sketch and interpret linear or quadratics graphs</i>		
Week 6	<b>School exams</b>		Formative assessments for external exams	
Weeks 7 - 10	<b>Trigonometry</b> AS 90152 (v2) External 2 credits	<i>Solve right-angled triangle problems</i>	Topic test (formative)  Week 10	
<b>Term 4</b>				
Weeks 1 - 3	<b>Probability</b> AS 90194 (v2) External 2 credits	<i>Determine probabilities</i>	Topic test (formative)  Week 3	
Weeks 4 - 5	<i>Revision for externals</i>			