



Stephen's School – Carramar Campus

Mathematics Learning Area

Year 9 Mathematics Foundations

2009

1. All students must have the following equipment as well as their textbook: pens; pencils; eraser; ruler; Math-Aid; Proliner; graph paper; and a suitable scientific calculator.
2. Students must keep and maintain a Mathematics Journal.
3. Investigations and problem solving form part of the assessment schedule.
4. Students must keep a portfolio containing all assessments. Parents are expected to sight and sign these.
5. At the end of each topic it is a good idea to file all work at home in a way that helps examination revision later in the semester.
6. Mathematics classes are grouped based on ability levels. It is normal for a small number of students to be moved into a more challenging or less demanding mathematics course depending on how well they are coping with their current mathematics course.
7. During significant assessments teachers may permit students to prepare 1 A4 page of notes to be used during the assessment. On occasions the student's mathematics journal may also be permitted.
8. In the interest of fairness and as stated in the school Assessment Policy, students who are absent for any significant mathematics assessment are expected to produce a medical certificate. Failure to do so may result in a zero score for the missed assessment.
9. Only approved calculators as stated on the booklist for this course are permitted in assessments. Some assessments or parts of assessment will be resource free. Ie. No calculators or notes permitted.
10. Homework is an integral part of our mathematics curriculum. Year 9 Practical Mathematics students should be completing an average of 20 - 25 minutes mathematics homework (fun work at home) at least 5 nights a week. Once class work and set homework has been completed students are expected to work on assignments, mathematics journals, extension work, revision, read ahead in text book etc.

Assessment Breakdown Year 9 Practical Mathematics Semester 1

Topic Tests and/or quizzes (Common to level)	70%
Investigations, problem solving and/or assignments	20%
Journal	10%

Assessment Breakdown Year 9 Practical Mathematics Semester 2

Topic Tests and/or quizzes (Common to level)	70%
Investigations, problem solving and/or assignments	20%
Journal	10%

Final mark for year will be the average of both semester's marks.

Grades allocated (from high to low) will be A, B, C, D and E.

Parent Signature:

Date:

TERM 1 - 2009

Week	Topic	Text Reference	Practical Application	Technology
1-3	Chapter 1 Numbers Whole Numbers Decimal And Fractions Directed Numbers Indices Percentages Mental Strategies Using the calculator	Nelson Maths for WA 9 1.1 – 1.7	- Managing Money; - Sports; - Travel - Mathletic Tasks	Companion Website Technology Applications - Coldest Temperatures - Percentages To Fractions And Decimals - Number Properties - Addition And Subtraction Of Directed Numbers
	Revision		Test 1 week 3 Mathletics	Companion Website Review Questions
4,5	Consumer Maths Percentages Of Quantities Percentage Change Discount And Commission Simple Interest And Best Buy	Nelson Maths for WA 9 11.2 Nelson Maths for WA 8	- Retail sales - Bank accounts - Credit cards	Companion Website - Technology Applications - Petrol To Lpg - Percentage Puzzle - Money Puzzle
	Revision & Assessment		Test 2 week 5 Mathletics	Companion Website Review Questions
6,7	Chapter 5: Measurement Circumference Composite Shapes Area Of Trapezium Perimeter	Nelson Maths for WA 9 5.1-5.6	- Building & construction - Garden design and agriculture	Companion Website Technology Applications - Luggage Volumes - Units Of Length Puzzle - Maths Terms Puzzle - Units Of Capacity And Volume - Area And Volume Formulas
	Revision		Test 3 Week 7	Companion Website Review Questions
8-10	Chapter 7 Statistics Revision: - Collecting Data - Column Graphs And Histograms Develop New Concepts: - Range - Stem And Leaf Plots - Mean And Median - Line Graphs	Nelson Maths for WA 9 Chapter 7 Nelson Maths for WA 8	- Building & Construction - Surveying - Mathletics	
	Revision		Assignment Basketball Week 10	Companion Website Review Questions

PROGRAM – TERM 2 - 2009

Week	Topic	Text Reference	Assessments	Technology
1-3	Chapter 2 Rules and Functions Patterns Variables Non Linear Functions	Nelson Maths for WA 9 Chapter 2		Mathletics
4	Revision		Mathletics Test 4 Rules and Functions	Companion Website Review Questions
5-7	Chapter 6 Algebraic Expression Index Notation Simplifying Substituting Factorising	Nelson Maths for WA 9 Chapter 6 Nelson Maths for WA 8	Skills Test 5 Week 7	Companion Website Review Questions Mathletics
8	Chapter 7 Probability Basic Probability Chances Probability Scale Fractions/Decimals/Percentage	Nelson Maths for WA 9 Chapter 7 7.4-7.6	Skills Test 6 Week 8	Mathletics
9-10	Fractions Adding/Subtracting same denominators Different Denominators Multiplying/Dividing Whole Numbers	Nelson Maths for WA 8 MAWA Book 1	Mathletics Test 7 Week 10	Mathletics Companion Website Review Questions

PROGRAM - TERM 3 - 2009

Week	Topic	Text Reference	Assessments	Technology
1-3	Money & Percentages Percentages Commission GST Tax	Nelson Maths for WA 9 Chapter 11 Nelson Maths for WA 8		Mathletics
4	Revision		Mathletics Test 8 Money & Percentages	Companion Website Review Questions
5-7	Chapter 12 Geometry of angles and sides Measuring, classifying and drawing angles Triangles Quadrilaterals	Nelson Maths for WA 9 Chapter 12 Nelson Maths for WA 8	Skills Test 9 Week 7	Companion Website Review Questions Mathletics

8-10	Revision & Assignment Basic Number Using Whole Numbers Angles Fractions	Nelson Maths for WA 9 Chapter 1, 2, 4, 7	Designing A Board Game Assignment 2	Mathletics Companion Website Technology Applications • Two Dice • Maths Terms • Spinners Puzzle • Probability Of Simple Events
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PROGRAM – TERM 4 - 2009

Week	Topic	Text Reference	Assessments	Technology
1-3	Chance & Sampling Develop New Concepts: • Sample Space Grids • Tree Diagrams • Simulations • Using Sampling Revision	Nelson Maths for WA Chapter 7	Test end week 3 on chapter 7 Test 10	Companion Website Technology Applications • Two Dice • Maths Terms • Spinners Puzzle • Probability Of Simple Events Companion Website Review Questions
4-5	Chapter 8 Ratio & Proportions Rates Ratios Direct Proportions Inverse Proportions	Nelson Maths for WA Chapter 8	Test end week 5 on chapter 11	Companion Website Technology Mathletics Companion Website Review Questions

Week	Topic	Text Reference	Assessments	Technology
6-7	Chapter 11 Linear Graphs Revision: - Plotting Points Develop New Concepts: - Linear Patterns And Simple Rules - Plotting Points From Rules - Horizontal And Vertical Lines - Gradients Of Straight Lines - Finding Equations Of Lines - The Gradient And Y-Intercept Revision	Nelson Maths for WA 9 Chapter 2	Test Week 12	Companion Website Technology Applications - Points On A Line - Plotting Co-Ordinates Lingraph Animation Companion Website Review Questions
8-10	Revision on Whole Year Work for end of year test All topics	Nelson Maths for WA 9	Test Week 10 Test 13	Mathletics