

Year 9 Mathematics Foundations Program

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PROGRAM – TERM 1 - 2006

Week	Topic	Text Reference	Assessments	Technology
1-3	Chapter 1 Numbers Whole Numbers Decimal And Fractions Directed Numbers Indices Percentages Mental Strategies	Course book Exercise 1A To 1R (Selected questions only)		Companion Website Technology Applications <ul style="list-style-type: none"> • Coldest Temperatures • Percentages To Fractions And Decimals • Number Properties • Addition And Subtraction Of Directed Numbers
	Revision	Course book Revision Questions P 32		Companion Website Review Questions
	Assessment Task 1	Teacher’s Resource Chapter Test 1	Test 1 week 2 on Ch 1	
4,5	Develop New Concepts: Percentages Of Quantities Percentage Change Discount And Commission Simple Interest And Best Buy	Course book Exercise 2A To 2H; 2J to 2L	Assignment 1	Companion Website <ul style="list-style-type: none"> • Technology Applications • Petrol To Lpg • Percentage Puzzle • Money Puzzle
5	Revision	Course book Revision Questions P 56		Companion Website Review Questions
	Assessment Task 2	Teacher’s Resource Chapter Test 2	Test 2 week 5 on Ch 2	

Week	Topic	Text Reference	Assessments	Technology
6,7	Develop New Concepts: Circumference Of A Circle Composite Shapes Area Of Trapezium, Circles And Sectors Surface Area Of Prisms Introducing volume (counting unit cubes, etc.)	Course book Exercise 3C To 3I		Companion Website Technology Applications <ul style="list-style-type: none"> • Luggage Volumes • Units Of Length Puzzle • Maths Terms Puzzle • Units Of Capacity And Volume • Area And Volume Formulas
	Revision	Course book Revision Questions P 86	Test 3 week 7 on Ch 3	Companion Website Review Questions
8-10	Chapter 4 Pythagoras Pythagoras' Theorem Pythagorean Triples	Course book Exercise 4A To 4F	Assignment 2	Companion Website Technology Applications <ul style="list-style-type: none"> • Pythagorean Triples • Pythagoras Puzzle • Maths Terms Puzzle • Pythagoras Animation
	Revision	Course book Revision Questions P 112		Companion Website Review Questions
	Assessment Task 4	Teacher's Resource Chapter Test 4	Test 4 week 10 on Ch 4	

PROGRAM – TERM 2 - 2006

Week	Topic	Text Reference	Assessments	Technology
1-2	Chapter 5 Trigonometry Labelling Right-Angle Triangles Tangent Ratios Finding Sides And Angles Using Tan Sine And Cosine Ratios	Coursebook Exercise 5A To 5G		
3	Applications Of Trigonometry:	Coursebook Applications P 138 Shooting For Goal Measuring Tan Extensions P 140 Complex Problems Areas Of Shapes Bushwalking		Companion Website Technology Applications Shooting For A Goal Trigonometry Puzzle Trig Ratios Animation
	Revision	Coursebook Revision Questions P 142		Companion Website Review Questions
	Assessment Task 5	Teacher's Resource Chapter Test 5	Test 5 week 3 on Ch 5	
4	Chapter 6 Ratio And Rates Ratio And Proportion Simplifying Ratios	Coursebook Exercise 6A		
5	Develop New Concepts: Using Ratios Rates And Speed, Distance And Time Graphs And Time	Coursebook Exercise 6B To 6G		

Week	Topic	Text Reference	Assessments	Technology
6	Applications Of Ratio And Rates:	Coursebook Applications P 168 The Parthenon Living Golden Ratios Designing Houses Favourite Rectangles		Companion Website Technology Applications Speed, Distance And Time Simplifying Ratios Puzzle Rates Puzzle Equivalent Ratios Puzzle
	Revision	Coursebook Revision Questions P 172		Companion Website Review Questions
	Assessment Task 6	Teacher's Resource Chapter Test 6	Test 6 week 6 on Ch 6	
7	Chapter 7 Polygons And Polyhedra Naming Angles Complementary And Supplementary Triangles, Quadrilaterals And Polygons Angles In Parallel Lines Congruent Shapes	Coursebook Exercise 7A - 7E		Geometer's Sketchpad
8	Develop New Concepts: Similar Shapes Applications Of Similar Triangles Drawing 3d Shapes	Coursebook Exercise 7F -7I Exercise 7K		Companion Website Quicktime Movies Nets Of Polyhedra
	Revision	Coursebook Revision Questions P 208		Companion Website Review Questions
	Assessment Task 7	Teacher's Resource Chapter Test 7	Test 7 week 8 on Ch 7	
9	Chapter 8 Transformations And Location Transformations Enlargements	Coursebook Exercise 8A -8E		Geometer's Sketchpad
10	Revision	Coursebook Revision Questions P 234	Test 8 week 10 on Ch 8	Companion Website Review Questions

PROGRAM – TERM 3 - 2006

Week	Topic	Text Reference	Assessments	Technology
1-2	Access to Algebra book 2 (AA) Using expressions The distributive property	AA Unit 1.		
3-4	Chapter 9 Algebra And Number Patterns Algebraic Expressions Substitution Formulas Develop New Concepts: Collecting Like Terms Expanding Brackets	Coursebook Exercise 9A – 9D Coursebook Exercise 9F To 9G		
5	Index laws	Coursebook 9K and 9M		
	Revision	Coursebook Revision Questions P 274		Companion Website Review Questions
	Assessment Task 9	Teacher's Resource Chapter Test 9	Test 9 end week 4 on Ch 9	
5	Chapter 10 Solving Linear Equations Simple Equations	Coursebook Exercise 10A		

Week	Topic	Text Reference	Assessments	Technology
6-7	Develop New Concepts: Solving Equations Using Flow Charts Inverse Operations Solving Equations With Brackets	Coursebook Exercise 10B – 10E		
	Revision	Coursebook Revision Questions P 304		Companion Website Review Questions
	Assessment Task 10	Teacher’s Resource Chapter Test 10	Test 10 end week 8 on Ch 10	
9	Revision: Plotting Points Access to algebra Unit 2	Coursebook Exercise 11A		
	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	Coursebook Exercise 11B -11I Puzzles P 328		
10	Applications Of Linear Graphs:	Coursebook Applications P 330 Web Page Costs Reflections Jumping Castle Hire Extensions P 332 Linear Relations Simultaneous Equations Plotting Parabolas		Companion Website Technology Applications Points On A Line Plotting Co-Ordinates Lingraph Animation
	Revision	Coursebook Revision Questions P 334		Companion Website Review Questions
	Assessment Task 11	Teacher’s Resource Chapter Test 11	Test 11 end week 10 on Ch 11	

PROGRAM – TERM 4 - 2006

Week	Topic	Text Reference	Assessments	Technology
1-3	<p>Chapter 13 Chance Develop New Concepts:</p> <ul style="list-style-type: none"> • Sample Space Grids • Tree Diagrams • Simulations • Using Sampling <p>Revision</p>	<p>Coursebook Exercise 13A – 13F Puzzles P 382</p> <p>Coursebook Revision Questions P 390</p>	<p>Test end week 3 on chapter 13</p>	<p>Companion Website Technology Applications</p> <ul style="list-style-type: none"> • Two Dice • Maths Terms • Spinners Puzzle • Probability Of Simple Events <p>Companion Website Review Questions</p>
4-5	<p>Chapter 14 Statistics Revision:</p> <ul style="list-style-type: none"> • Collecting Data • Column Graphs And Histograms <p>Develop New Concepts:</p> <ul style="list-style-type: none"> • The Interquartile Range • Stem And Leaf Plots • Mean And Median • Line Graphs <p>Revision</p>	<p>Coursebook Exercise 14A -14B</p> <p>Coursebook Exercise 14C – 14F Puzzles P 416</p> <p>Coursebook Revision Questions P 422</p>	<p>Test end week 5 on chapter 14</p>	<p>Companion Website Technology Applications</p> <ul style="list-style-type: none"> • World Temperatures • Types Of Graphs • Table Types Puzzle • Maths Terms Puzzle <p>Companion Website Review Questions</p>

Week	Topic	Class Work	Assessments	Technology
6-7	<p>Chapter 11 Linear Graphs</p> <p>Revision:</p> <ul style="list-style-type: none"> Plotting Points <p>Develop New Concepts:</p> <ul style="list-style-type: none"> 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 <p>Revision</p>	<p>Coursebook Exercise 11A</p> <p>Coursebook Exercise 11B -11I Puzzles P 328</p> <p>Coursebook Revision Questions P 334</p>	<p>Test Week 3 on chapter 11</p>	<p>Companion Website Technology Applications</p> <ul style="list-style-type: none"> Points On A Line Plotting Co-Ordinates Line graph Animation <p>Companion Website Review Questions</p>
8	<p>Year 9 Camp Final Awards Assembly</p>			