

| Nat 5 Course Outline up to November AB exam | NS | OT | VG |
|---|----|----|----|
| Applications 1.3 | | | |
| Percentage increase and decrease (pages 328 - 333) | | | |
| Reverse percentages - if given 80%, find 100% (pages 335 - 337) | | | |
| Add, subtract, multiply and divide mixed fractions (pages 339 - 344) | | | |
| Applications 1.1 | | | |
| Area formula for a triangle $A = 1/2 ab\sin C$ (pages 293 - 297) | | | |
| Using the Sine Rule (pages 299 - 301) | | | |
| Using the Cosine Rule to find a side or an angle (pages 301 - 304) | | | |
| Problem solving with the Sine and Cosine Rules (pages 305 - 310) | | | |
| Relationships 1.3 | | | |
| Solving quadratic equations using algebra (pages 184 - 186) | | | |
| Solving quadratic equations with the quadratic formula (pages 187 - 191) | | | |
| Points of intersection between parabolas & straight lines (pages 193 - 194) | | | |
| Problem solving with quadratic equations (pages 195 - 198) | | | |
| The discriminant of a quadratic equation (pages 199 - 201) | | | |

| Nat 5 Course Outline up to November AB exam | NS | OT | VG |
|---|----|----|----|
| Expressions and Formulae 1.2 | | | |
| Expand brackets (pages 29 - 33) | | | |
| Factorise expressions (pages 35 - 40) | | | |
| Completing the square (pages 43 - 45) | | | |
| Expressions and Formulae 1.4 | | | |
| Rounding to significant figures (pages 85 - 88) | | | |
| Find the length of an arc of a circle (pages 69 - 72) | | | |
| Find the area of a sector of a circle (pages 73 - 74) | | | |
| Volumes of cylinders, cones and spheres (pages 77 - 83) | | | |
| Find the gradient between two points (pages 61 - 62) | | | |
| Relationships 1.1 | | | |
| Determine the equation of a Straight Line (pages 100 - 102) | | | |
| Use function notation (pages 103 - 105) | | | |
| Solving equations and inequations (pages 113 - 118) | | | |
| Solving simultaneous equations (pages 125 - 130) | | | |
| Changing the subject of a formula (pages 133 - 144) | | | |

Nat 5 Course Outline up to November AB exam

NS OT VG

Relationships 1.4

The converse of Pythagoras (pages 208 - 209)

Finding angles in circles and semi-circles (pages 222 - 224)

Tangents to circles & perpendicular bisectors (pages 227 - 232)

Similarity and Scale Factor for length, area and volume (pages 239 - 247)

| | | |
|--|--|--|
| | | |
| | | |
| | | |
| | | |

Relationships 1.2

Quadratic graphs (parabolas) in the form $y = kx^2$ (pages 147 - 151)

Quadratic graphs in the form $y = (x + p)^2 + q$ (pages 151 - 157, 165 - 166)

Quadratic graphs in the form $y = (x + m)(x - n)$ (pages 161 - 163)

Sketching quadratics graphs $y = ax^2 + bx + c$ (pages 167 - 172)

Turning points & axis of symmetry for quadratic graphs (pages 176 - 181)

Problem solving with quadratic graphs (pages 180-181)

| | | |
|--|--|--|
| | | |
| | | |
| | | |
| | | |
| | | |