

**ST. JEAN DE BREBEUF CATHOLIC SECONDARY SCHOOL**

MBF 3C1

Name: \_\_\_\_\_

Date: \_\_\_\_\_

**MBF 3C1 – GRADE 11 MATHEMATICS (COLLEGE)**

**CHAPTER 1:** Trigonometry

<b>DAY</b>	<b>SECTION / TOPIC</b>	<b>SEATWORK / HOMEWORK</b>
1	1.1 – Basic Trigonometric Ratios	Pg. 13 – 15 #1 – 11, 14
2	1.2 – Solve Problems Using Trigonometric Ratios	Page 21 – 23 #2 – 13
3	<b>QUIZ (Basic Trigonometric Ratios)</b> 1.3 – The Sine Law	Page 31 – 33 #1ac, 2, 3, 4a, 5, 7 – 9, 11
4	1.3 – The Sine Law (if required) 1.4 – The Cosine Law	Page 39 – 41 #1ac, 2ac, 3 – 6, 8 – 10, 12a
5	1.5 – Make Decisions Using Trigonometry	Page 48 – 51 #1 – 4, 6 – 8, 10
6	Chapter 1 Review	Page 52 – 53 #1 – 16
7	<b>PERFORMANCE TASK</b>	Page 52 – 53 #1 – 16 (if not completed)
8	<b>CHAPTER 1 TEST</b>	Page 58 – 59 #1 – 10

**CHAPTER 2:** Probability

<b>DAY</b>	<b>SECTION / TOPIC</b>	<b>SEATWORK / HOMEWORK</b>
1	2.1 – Experimental Probability	Page 65 – 67 #1 – 7, 9
2	2.2 – Theoretical Probability	Page 73 – 75 #1 – 12
3	2.3 – Compare Experimental and Theoretical Probability	Page 82 – 85 #1 – 6, 11 – 13
4	2.4 Interpret Information Involving Probability	Page 89 – 93 #1, 3 – 9
5	Chapter 2 Review	Page 94 – 95 #1 – 11
6	<b>CHAPTER 2 TEST</b>	Page 100 – 101 #1 – 7

**CHAPTER 3:** One Variable Statistics

<b>DAY</b>	<b>SECTION / TOPIC</b>	<b>SEATWORK / HOMEWORK</b>
1	3.1 - Sampling Techniques	Page 106 – 109 #1 – 9
2	3.2 - Collect and Analyse Data	Page 114 – 117 #1 – 12
3	3.3 - Display Data	Page 125 – 129 #1 – 9, 12
4	3.4 - Measures of Central Tendency	Page 136 – 139 #1 – 9, 11
5	3.5 - Measures of Spread	Page 145 – 147 #1 – 10, 12
6	3.6 - Common Distributions	Page 153 – 155 #1 – 7
7	Chapter 3 Review	Page 156 – 157 #1 – 14
8	<b>PERFORMANCE TASK</b>	
9	<b>CHAPTER 3 TEST</b>	Page 166 – 167 #1 – 11

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**CHAPTER 4:** Quadratic Relations

<b>DAY</b>	<b>SECTION / TOPIC</b>	<b>SEATWORK / HOMEWORK</b>
1	4.1 - Modelling With Quadratic Relations	Page 173 – 179 #1 – 10
2	4.2 - The Quadratic Relation $y = ax^2 + k$	Page 191 – 193 #1 – 9
3	4.3 - The Quadratic Relation $y = a(x - h)^2$	Page 200 – 201 #1 – 3, 4 (graph only), 5
4	4.4 (Part 1) - Graphing The Quadratic Relation $y = a(x - h)^2 + k$	Page 212 – 217 #1, 2acegi, 3aceg
5	4.4 (Part 2) - The Quadratic Relation $y = a(x - h)^2 + k$	Page 213 – 216 #4acd, 5acd, 6, 8, 9
6	4.5 - Interpret Graphs of Quadratic Relations	Page 222 – 225 #1aceg, #2acde, 4 – 7
7	Chapter 4 Review	Page 226 – 227 #1 – 12
8	<b>CHAPTER 4 TEST</b>	Page 232 – 233 #1 – 12

**CHAPTER 5:** Quadratic Relations (Part 2)

<b>DAY</b>	<b>SECTION / TOPIC</b>	<b>SEATWORK / HOMEWORK</b>
1	5.1 - Expanding Binomials	Page 239 – 240 #3acde, 4acde, 5acde, 6 ace, 7cdef, 9a(i, iii), 10, 12
2	5.2 - Change Quadratic Relations From Vertex Form to Standard Form	Page 245 #1ace, 2ace, 3ace, 4ace, 6abc, 7abc, 8, 10, 11
3	5.3 - Factoring Trinomials of the Form $y = x^2 + bx + c$	Page 253 – 255 #1, 2, 3acegh, 6a-c, 7a-e, 8, 9, 11, *13
4	5.4 - Factor Trinomials of the Form $y = ax^2 + bx + c$	Page 259 – 262 #1abcd, 2abcd, 3ac, 4abce, 5abce, 6abef, 8ab, 9, 10
5	(consolidate)	
6	<b>QUIZ (Factoring)</b> 5.5 - The x-Intercepts of a Quadratic Relation	Page 271 – 274 #1, 2, 3a-d, 4a-d, 5abd, 7ace, 9, 11ab
7	5.5 - The x-Intercepts of a Quadratic Relation (if required) 5.6 - Solve Problems Involving Quadratic Relations	Page 281 – 285 #1a-c, 2, 3abdef, 4a-c, 5ace, 6ace, 7, 9, 13 – 15
8	(consolidate)	
9	Chapter 5 Review	Page 286 – 287 #1 – 15
10	<b>PERFORMANCE TASK</b>	Page 286 – 287 #1 – 15 (if not completed)
11	<b>CHAPTER 5 TEST</b>	Page 294 – 295 #1 – 12

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### **CHAPTER 6:** Geometry in Design

<b>DAY</b>	<b>SECTION / TOPIC</b>	<b>SEATWORK / HOMEWORK</b>
1	6.1 - Investigate Geometric Shapes and Figures	Page 302 – 304 #1 – 5, 7 – 12
2	6.2 - Perspective and Orthographic Drawings	Page 314 – 317 #1 – 10
3	6.3 - Create Nets, Plans and Patterns	Page 322 – 324 #1 – 10
4	6.4 - Scale Models	Page 331 – 333 #1 – 9
5	6.5 - Solve Problems with Given Constraints	Page 340 – 342 #1 – 10
6	Chapter 6 Review	Page 346 – 347 #1 – 11
7	<b>CHAPTER 6 TEST</b>	Page 354 #1 – 6

### **CHAPTER 7:** Exponents

<b>DAY</b>	<b>SECTION / TOPIC</b>	<b>SEATWORK / HOMEWORK</b>
1	7.1 - Exponent Rules	Page 360 – 363 #1 – 3, 4a-g, 5abcefgi, 6, 9 – 12, 14
2	7.2 - Zero and Negative Exponents	Page 367 – 371 #1 – 7, 8acegik, 9, 10, 12
3	<b>QUIZ (7.1 and 7.2 Exponent Rules)</b> 7.3 - Investigate Exponential Relationships	Page 377 – 381 #1 – 11
4	7.4 - Exponential Relations	Page 390 – 394 #1 – 7, 9, 11, 13
5	7.5 - Modelling Exponential Growth and Decay (Exponential Regression)	Page 401 – 405 #1 – 7, 10, *12
6	7.6 - Solving Problems Involving Exponential Growth and Decay	Page 410 – 413 #1 – 7, 8a, 10, 13
7	Chapter 7 Review	Page 414 – 415 #1 – 11
8	<b>CHAPTER 7 TEST</b>	Page 420 – 421 #1 – 8ab (try c, d)

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**CHAPTER 8:** Compound Interest

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1	8.1 - Simple and Compound Interest	Page 428 – 429 #1 – 9
2	8.2 - Compound Interest	Page 432 – 435 #1ace, #3 – 10, 12, 13, 16
3	8.3 - Present Value	Page 439 – 441 #1 – 13
4	<b>QUIZ (Simple and Compound Interest)</b> 8.4 - The TVM Solver	Page 444 – 445 #1 – 14 (using TVM Solver)
5	8.4 - The TVM Solver (if necessary) 8.5 - Effects of Changing the Conditions on Investments and Loans	Page 450 – 453 #1 – 9, 12, 14, 17
6	Chapter 8 Review	Page 444 – 445 #1 – 14
7	<b>CHAPTER 8 TEST</b>	Page 460 – 461 #1 – 10 (#11 if technology is available)

**CHAPTER 9:** Personal Finance

<b>DAY</b>	<b>SECTION / TOPIC</b>	<b>SEATWORK / HOMEWORK</b>
1	9.1 - Savings Alternatives	Page 465 – 467 #1 – 10
2	9.2 - Investment Alternatives	Go on to the <i>Internet</i> and “Google” the term <b>GUARANTEED INVESTMENT CERTIFICATE (GIC)</b> ; print out information and place in notes Page 472 – 475 #1 – 8, 10a-d, 13, *14
3	9.3 - Manage Credit Cards	Page 479 – 481 #1 – 9
4	9.4 - Obtain a Vehicle	Page 486 – 488 #1 – 11
5	9.5 - Operate a Vehicle	Page 493 – 495 #1 – 4, 6 – 13
6	Chapter 9 Review	Page 496 – 497 #1 – 13
7	<b>Performance Task</b>	Page 496 – 497 #1 – 13 (if not completed)
8	<b>Chapter 9 Test</b>	Final exam preparation (TBA)