**Glebe Collegiate Institute – MAP4C Course Assessment Rubric** Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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|  | **Overall Expectations** | **LEVEL** | | | | | | | | | |
| **I** | **[-] R [+]** | | **[-] 1 [+]** | **[-] 2 [+]** | | **[-] 3 [+]** | | **[-] 4 [+]** |
| **Mathematical Models** | **A1** - evaluate powers with rational exponents, simplify algebraic expressions involving exponents, and solve problems involving exponential equations graphically and using common bases; |  |  | |  |  | |  | |  |
| **A2** - describe trends based on the interpretation of graphs, compare graphs using initial conditions and rates of change, and solve problems by modelling relationships graphically and algebraically; |  |  | |  |  | |  | |  |
| **A3** - make connections between formulas and linear, quadratic, and exponential relations, solve problems using formulas arising from real-world applications, and describe applications of mathematical modelling in various occupations. |  |  | |  |  | |  | |  |
| **Personal Finance** | **B1** - demonstrate an understanding of annuities, including mortgages, and solve related problems using technology; |  |  | |  |  | |  | |  |
| **B2** - gather, interpret, and compare information about owning or renting accommodation, and solve  problems involving the associated costs; |  |  | |  |  | |  | |  |
| **B3** - design, justify, and adjust budgets for individuals and families described in case studies, and describe applications of the mathematics of personal finance. |  |  | |  |  | |  | |  |
| **Geometry and Trigonometry** | **C1** - solve problems involving measurement and geometry and arising from real-world applications; |  |  | |  |  | |  | |  |
| **C2** - explain the significance of optimal dimensions in real-world applications, and determine optimal  dimensions of two-dimensional shapes and three-dimensional figures; |  |  | |  |  | |  | |  |
| **C3** - solve problems using primary trigonometric ratios of acute and obtuse angles, the sine law, and the cosine law, including problems arising from real-world applications, and describe applications of trigonometry in various occupations. |  |  | |  |  | |  | |  |
| **Data Management** | **D1** - collect, analyse, and summarize two-variable data using a variety of tools and strategies, and  interpret and draw conclusions from the data; |  |  | |  |  | |  | |  |
| **D2** - demonstrate an understanding of the applications of data management used by the media and the advertising industry and in various occupations. |  |  | |  |  | |  | |  |
|  | Midterm Report Grade | | | Summative and Exam Marks | | | Final Semester Work Grade.  [This grade is 70% of the final grade.] | | Final Course Mark. | | |