**Workplace and Apprenticeship 20**

**Course Outline**

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| **Chapter** | **Outcomes** | **Time Line**(Approximate) |
| Chapter 1Slope and Rate of Change | WA20.9 Demonstrate concretely, pictorially, and symbolically (with and without the use of technology) an understanding of slope with respect to: rise over run, rate of change and solving problems.WA20.10Extend and apply proportional thinking to solve problems that involve unit analysis and scale. | 14 |
| Chapter 2Graphical Representations |  WA20.11Expand and apply understanding of representing data using graphs including: bar graphs, histograms, line graphs, and circle graphs.  | 10 |
| Chapter 3Surface Area, Volume and Capacity | WA20.1 Expand and apply understanding of the preservation of equality including solving problems that involve the manipulation and application of formulae for volume and capacity, surface area, slope and rate of change, simple interest and finance charges.WA20.3Extend and apply understanding of surface area, volume, and capacity using concrete and pictorial models and symbolic representations (SI or Imperial units of measurement.)  | 14 |
| Chapter 4Trigonometry of Right Triangles | [WA20.4](https://www.edonline.sk.ca/webapps/moe-curriculum-BBLEARN/?view=indicators&lang=en&subpage=16&XML=Pre-calculus_20.xml) Solve problems that involve at least two right triangles. | 8 |
| Chapter 5Scale Representations | [WA20.5](https://www.edonline.sk.ca/webapps/moe-curriculum-BBLEARN/?view=indicators&lang=en&subpage=12&XML=Pre-calculus_20.xml) Extend and apply understanding of 3-D objects including: top, bottom, and side views; exploded views; component parts; and scale diagrams. | 8 |
| Chapter 6 Financial Services | [WA20.8](https://www.edonline.sk.ca/webapps/moe-curriculum-BBLEARN/?view=indicators&lang=en&subpage=13&XML=Pre-calculus_20.xml) Demonstrate understanding of financial institution services used to access and to manage personal finances, including credit options. | 8 |
| Chapter 7Personal Budgets | [WA20.6](https://www.edonline.sk.ca/webapps/moe-curriculum-BBLEARN/?view=indicators&lang=en&subpage=11&XML=Pre-calculus_20.xml) Demonstrate understanding of personal budgets and their importance for financial planning.[WA20.7](https://www.edonline.sk.ca/webapps/moe-curriculum-BBLEARN/?view=indicators&lang=en&subpage=111&XML=Pre-calculus_20.xml) Demonstrate understanding of compound interest. | 8 |
| Puzzles and Games |  WA20.2Demonstrate the ability to analyze puzzles and games that involve numerical reasoning and problem solving strategies. | 5 |
|  | Final Review | 5 |

**Term Mark Breakdown**

Assignment & Quizzes 30%

Unit Projects 30%

Unit Tests 40%

**Final Mark Breakdown**

Term 1 35%

Term 2 35%

Final Test 30%