 **workplace Math 11**

**Course Outline**

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**Course Rationale**: This pathway is specifically designed to provide students with the mathematical understandings and critical-thinking skills identified for entry into the majority of trades at post secondary and for direct entry into the work force

**Course concept**: This year students will explore mathematics through a business lens, where they will learn various aspects of planning and running a small business. Summative assessment will be based on each student’s individual completion and submission of a business plan that covers the course content and allows students to the opportunity to make and justify decisions whilst practicing creativity and ingenuity.

**BC’s Prescribed Curriculum:**

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| --- | --- | --- |
| **Big Ideas in Math 11AW:** | **Content Explored:** |  |
| Mathematics informs financial decision making. | * Financial literacy: personal investments, loans and budgeting |  |
| 3D objects are often represented and described in 2D space. | * 3D objects: angles, views, and scale diagrams | Image result for 3D scale model building construction blueprint |
| Flexibility with number builds meaning, understanding, and confidence. | * Rate of change (slope) * How probability and statistics are used in different contexts | C:\Users\18972\AppData\Local\Microsoft\Windows\INetCache\Content.MSO\3977FBCD.tmp |
| Representing and analyzing data allows us to notice and wonder about relationships. | * Interpreting graphs in society | Image result for types of graphs |
| Proportional reasoning is used to make sense of multiplicative relationships. | * *Embedded throughout course concepts* | **C:\Users\18972\AppData\Local\Microsoft\Windows\INetCache\Content.MSO\59BDFBD1.tmp** |

**Assessment**

Coursework will focus on development of the curricular competencies, with the content being the conversation to drive mathematical thinking.

* + *Formative assessment* provides information for the teacher, student, and parent about the student’s process of learning. Formative marks are not reflected in the student’s grade. Formative assessment is intended to show the progression throughout the course.
  + *Summative assessment* (evaluation) provides evidence for the teacher, student, and parent about what the student has learned. Summative marks constitute the students’ end mark.
* Student will be assigned **formative practice assignments** regularly. These will be reviewed each class and provides students an opportunity to practice a concept/skill risk-free.
* Once a skill is developed, students will provide evidence of learning via a **skill check**. If a student does poorly, more practice is required. Students will be scaffolded and will have the opportunity to re-do a skill check once they have demonstrated that they have done sufficient practice.
* There will be a year-long **summative project** that students will be working on. The idea is that the work done in class will provide conceptual understanding and skill development and students will transfer these skills to provide evidence of their learning in a way that connects the entire course content together.

**Materials Needed**

* Students will the following supplies: a binder, pencils, a ruler, lined paper, graph paper and a calculator.
* **CELL PHONES ARE NOT PERMITTED DURING CLASS.** Students will be asked to turn phones to silent and put away for duration of class.

**General Procedures**

* **Attendance**: Students are expected to attend all classes. If they are absent, they are responsible for seeking out missed assignments and ensuring that they comprehend what was covered. Attending FLEX the day following an absence is the best idea as it allows students to keep up with the class.
* **Keeping Up:** The course is planned and instructed in a way that it is manageable for students if they attend all classes and complete work in class using their time wisely. Math concepts usually build upon each other so if a student falls behind due to absence or incomplete work, a negative snowball effect often ensues and that can be quite stressful for students. The best advice is to come to class on time, pay attention, complete all practice assignments and summative assignments, attend FLEX when needed, and ASK FOR HELP.

it's okay to not know

**This.**

but

it's not okay to not try