**Workplace Mathematics 10**

This course is designed to prepare students for careers in most trades or for direct entry into the workforce. Students taking WMa10 will take WMa11 as part of their graduation requirement.

This course will not meet the entrance requirements for universities. If you decide to apply for university programs after high school graduation, you can upgrade your math skills at Yukon College. You can also take FPCMa10 in your Grade 11 or 12 year.

**Course Outline and *Approximate* Timeline**:

**# of Classes**

1. Graphing 10

2. Earning an Income 13

3. Measurement 1 14

4. Measurement 2 12

5. Data and Probability 10

6. Solving Right Triangles 10

Review for Final Exam 3

*Final Exams*

Note: If you complete a particular unit earlier than the dates indicated, you can move onto the next unit early. You may find some units more difficult than others and may require more time on future units.

**Each unit consists of:**

1. **Unit Booklet** containing notes, examples, assignments and answer key
2. **Quizzes**, 1 or 2 throughout the unit
3. **Test**

**Required Supplies:** binder, pencil/eraser, scientific calculator (approximately $10 Staples or Walmart)

**Types of Assessments:**

|  |  |
| --- | --- |
| Formative Assessment | Summative Assessment |
| Checkpoints (Quizzes)  Discussions/Conversations  Observations  Activities  Self Assessments | Assignments  Tests  Final Exam |

**Criteria for Assessments:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Incomplete | Emerging | Developing | Proficient | Extending |

**Criterion A: Knowledge and Understanding**

• Select appropriate mathematics when solving challenging problems in both familiar and unfamiliar situations

• Apply the selected mathematics successfully when solving these problems

• Generally solve these problems correctly

**Criterion B: Investigating Patterns**

• Select and apply mathematical problem-solving techniques to discover complex patterns

• Describe patterns as relationships and/or general rules consistent with correct findings

• Verify and justify these relationships and/or general rules

**Criterion C: Communicating**

• Consistently use appropriate mathematical language

• Use different forms of mathematical representation to consistently present information correctly

• Move effectively between different forms of mathematical representation

• Communicate through lines of reasoning that are complete and coherent

• Present work that is consistently organized using a logical structure

**Criterion D: Applying Mathematics in Real-Life Contexts**

• Identify the relevant elements of the authentic real-life situation

• Select appropriate mathematical strategies to model the authentic real-life situation

• Apply the selected mathematical strategies to reach a correct solution

• Explain the degree of accuracy of the solution

• Explain whether the solution makes sense in the context of the authentic real-life situation

**How to be a successful math student:**

* **Show all steps** you used to solve math questions (*prove the answer* with your steps).
* **Check** your assignment work regularly with provided answer key.

* **Ask for help when you need it** (ask teacher, EA or classmate).
* To increase your understanding, review any mistakes you make on Unit Tests.
* **Keep organized** and **work hard** to master the required skills during the allotted time
* It is your responsibility to keep up with the topics covered. If you are struggling, please **seek help**. ‘Lunch Time Tutoring’ is available daily in the LA Room (#224). I will also be available during lunch, Monday, Wednesday and Fridays. After-school tutoring is on Tuesdays and Thursdays in the LA room.

**Expectations:**

* Positive attitude and behaviour towards other students and teachers.
* Regular Attendance. You will be expected to catch up on any work missed.
* Arrive on time.
* Keep your work organized and neat.
* Drinks permitted if in spill-proof containers. No food please.
* Cell phones should not be used during class.
* No hall wandering; only one student is to be out with the ‘hall pass’ at a time. Please return to class directly
* If students want to listen to music while doing class work, devices should be face down on tables, and set to ‘airplane mode’ or silenced (not vibrate), so not to distract you or others. If your phone becomes a distraction, you will be asked to put it on my desk for the duration of class.