

# Workplace Math 10 & 11 Course Outline

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Welcome to Workplace Math 10 & 11! Over the next 5 months, we will explore a variety of concepts in Mathematics. Mathematics provides important skills needed in the workplace and in life. Understanding how math works and how to implement it in everyday life requires not only learning the skills but also being able to apply that knowledge to real-world Applications. The final project will require an understanding of all ten units and will be presented in the last week of class. By the end of this course, you will have developed an important foundation of skills, attitudes, knowledge and respect to Mathematics. There is no final exam for this class.

The following topics will be covered in various degrees of detail over the course:

<p><b><u>Unit 1: Earning Income (2 to 3 weeks)</u></b></p> <ul style="list-style-type: none"><li>• Banking: accounts, credit cards, interest, loans</li><li>• Budgeting</li></ul> <p><b><u>Unit 2: Linear Measurement (2 weeks)</u></b></p> <p><b><u>Unit 3: Measurement Problems (2 weeks)</u></b></p> <p><b><u>Unit 4: Area Measurement (2 to 3 weeks)</u></b></p> <ul style="list-style-type: none"><li>• Surface Area of Prisms, Pyramids, Cylinders, Spheres and Cones</li></ul> <p><b><u>Unit 5: Capacity, Volume, Mass and Temperature (2 to 3 weeks)</u></b></p> <ul style="list-style-type: none"><li>• Volume and Capacity of Prisms, Cylinders, Spheres, Cones and Pyramids</li></ul> <p><b><u>Unit 6: Working with Money (1 to 2 weeks)</u></b></p> <p><b><u>Unit 7: Lines and Angles (1 to 2 weeks)</u></b></p> <ul style="list-style-type: none"><li>• Rise Over Run</li><li>• Grade, Angel of Elevation, and Distance</li><li>• Rate of Change</li></ul> <p><b><u>Unit 8: Relationships in Right Triangles (2 to 3 weeks)</u></b></p> <ul style="list-style-type: none"><li>• Solving Angles, Lengths, and Distances</li><li>• Solving Complex Problems in the Real World</li></ul>	<p><b><u>Unit 9: Similar Polygons + Scale</u></b></p> <ul style="list-style-type: none"><li>• Scale Drawings and Models</li><li>• Two-Dimensional Representations</li><li>• Three-Dimensional Representations</li></ul> <p><b><u>Unit 10: Transformations</u></b></p> <p><b><u>Unit 11: Graphical Representation (2 weeks)</u></b></p> <ul style="list-style-type: none"><li>• Interpreting Broken Line Graphs, Bar Graphs, Histograms and Circle Graphs</li></ul> <p>-----</p> <p>Note: these times are approximate and subject to change.</p> <p>The bullets are AW Math 11 components.</p> <p>-----</p> <table border="1"><thead><tr><th colspan="2"><b><u>Course Evaluation:</u></b></th></tr></thead><tbody><tr><td>Assignments &amp; Labs</td><td>15 %</td></tr><tr><td>Quizzes</td><td>15 %</td></tr><tr><td>Unit Tests (10)</td><td>50 %</td></tr><tr><td>Final Project</td><td>20 %</td></tr><tr><td><b>Total</b></td><td><b>100%</b></td></tr></tbody></table>	<b><u>Course Evaluation:</u></b>		Assignments & Labs	15 %	Quizzes	15 %	Unit Tests (10)	50 %	Final Project	20 %	<b>Total</b>	<b>100%</b>
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# Workplace Math 10 & 11 Course Outline

## Class Expectations:

**Attendance**→ Regular attendance is **key** to success in Workplace Math 10 & 11. If, for whatever reason you are away, **YOU** are responsible to get any notes, handouts, and/or information from your contact person, the front folder box, or from the website.

**Homework & Assignments**→ Although time will be given to complete most assignments in class; some assignments will require time out of the class to finish. When homework is assigned, it is due the next day at the **beginning of the class**. All work to be handed in must be **clearly labeled with name, date, and assignment information**.

**Required Materials:** Have these with you every day.

- Binder with loose-leaf paper
- Pens of various colors
- Scientific Calculator
- Coiled notebook 200 pages (core book)
- Pencils
- Well rested and inquisitive mind
- Graph paper
- Ruler
- Eraser

## **Quizzes & Tests**

Quizzes and tests will be taken at regular intervals throughout the course. Please be on time as extra time will not be given. If you are away during a test for a legitimate reason you may take the test at a different time (within 2-3 days of your return to school). If you have no reason to be away, you will receive a grade of 0%. Please have all necessary material with you when you are scheduled to write the exam.

Math can be a very rewarding course if you engage in it. You need to be an active member of class, involve yourself in discussions, ask questions to clarify, and extend your learning.

I am available before school from approximately 8:10 - 8:32, most lunch hours and sometimes after school for extra help.

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A & W Math 10 and 11:

Parents/Guardians, in order to keep in touch with you, please fill out this portion of the course outline (please print) and have it returned to me by the end of the first week of school. (It will be worth marks!!) Feel free to contact me at lunch, before, or after school at 250-788-2267 or by email at [abandali@sd59.bc.ca](mailto:abandali@sd59.bc.ca)

Student name: \_\_\_\_\_

Parent/Guardian name(s): \_\_\_\_\_

Parent/Guardian phone #: \_\_\_\_\_

Parent/Guardian email: \_\_\_\_\_