# Apprenticeship Math 12
# Course Outline

Ms. Bakermans – Room 649
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Welcome to Apprenticeship Math 12!

Class website: https://lbakermans.weebly.com/app-12.html

## Course Content *(to know)*

- measuring: using tools with graduated scales; conversions using metric and imperial
- similar triangles: including right-angle trigonometry
- 2D and 3D shapes: including area, surface area, volume, and nets
- 3D objects and their views (isometric drawing, orthographic projection)
- mathematics in the workplace
- financial literacy: business investments and loans

## Curricular Competencies *(to be able to do)*

- Reasoning and modelling
- Understanding and solving
- Communication and representing
- Connecting and reflecting

For more information about learning standards for this course, please see:

https://curriculum.gov.bc.ca/curriculum/mathematics/12/apprenticeship-mathematics

## Big Ideas *(to understand)*

- Design involves investigating, planning, creating, and evaluating.
- Constructing 3D objects often requires a 2D plan.
- Transferring mathematical skills between problems requires conceptual understanding and flexible thinking.
- Proportional reasoning is used to make sense of multiplicative relationships.
- Choosing a tool based on required precision and accuracy is important when measuring.

## Required Materials

- pencil and eraser
- 3-ring binder
- lined paper
- ruler
- calculator (phone calculators will not be allowed during tests)

## Mark Distribution

Course Work   80%
Final Exam     20% *
Final Grade   100%

You will be assessed by learning outcome. Each outcome will be given a grade as follows:

| 4 | 3 | 2 | 1 | 0 |
|---|---|---|---|---|
| Demonstrates understanding of **ALL** concepts. | Demonstrates understanding of **MOST** concepts. | Demonstrates understanding of **SOME** concepts. | **MORE PRACTICE** is needed. | **NO EVIDENCE** of learning. |

* You can be recommended (no final exam) for this course. You must have:

1. no missing work
2. attendance of ≥ 75%
3. 'G' work habits
4. a grade of B or better

Marks will be posted on the course website and protected by a password (student number).

## Attendance

Success in school is directly related to your attendance.  Your marks are based on your daily work and participation in class activities. Absences **for any reason** will have a negative effect on your learning. While some absences are unavoidable, please schedule external appointments (doctor, dentist etc…) outside of school time if possible.

## Classroom Expectations

- Arrive on time, with all necessary supplies.

- Contribute to a positive and respectful learning environment → use appropriate language and be considerate of others in the classroom.

- Keep up with assignments, strive to do your best and seek help when you get stuck. If you do not understand something, it is your job to ask questions.

- Take responsibility for missed notes, assignments, quizzes and tests.

- Put your cell phone away and remove earbuds during instruction and class discussion time.

- Leave your desk and work area clean.

Please complete the contact information below and sign to confirm that you have read and understood the **Apprenticeship Math 12 Course Outline**.

Student's name: _____

Parent/guardian name(s):

1. _____

   phone: _____

   email: _____

2. _____

   phone: _____

   email: _____

Is there any information that may impact this student's learning or attendance that you would like me to be aware of?

_____

_____

_____

_____

Student signature: _____

Parent/guardian signature: _____