



# Argyle Secondary School Math Department Workplace Mathematics 11 Course Outline

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[Building Student Success - B.C. Curriculum \(gov.bc.ca\)](http://gov.bc.ca)

## BIG IDEAS

**Proportional reasoning** is used to make sense of **multiplicative** relationships.

Mathematics informs financial **decision making**.

**3D objects** are often represented and described in 2D space.

Flexibility with number builds meaning, **understanding**, and confidence.

Representing and analyzing data allows us to **notice and wonder** about relationships.

## CURRICULAR COMPETENCIES:

*Students are expected to be able to do the following:*

### Reasoning and modeling

- Develop thinking strategies to solve puzzles and play games
- Explore, analyze, and apply mathematical ideas using reason, technology, and other tools
- Estimate reasonably and demonstrate fluent, flexible, and strategic thinking about number
- Model with mathematics in situational contexts
- Think creatively and with curiosity and wonder when exploring problems

### Understanding and solving

- Develop, demonstrate, and apply conceptual understanding of mathematical ideas through play, story, inquiry, and problem solving
- Visualize to explore and illustrate mathematical concepts and relationships
- Apply flexible and strategic approaches to solve problems
- Solve problems with persistence and a positive disposition
- Engage in problem-solving experiences connected with place, story, cultural practices, and perspectives relevant to local First Peoples communities, the local community, and other cultures

### Communicating and representing

- Explain and justify mathematical ideas and decisions in many ways
- Represent mathematical ideas in concrete, pictorial, and symbolic forms
- Use mathematical vocabulary and language to contribute to discussions in the classroom
- Take risks when offering ideas in classroom discourse

### Connecting and reflecting

- Reflect on mathematical thinking
- Connect mathematical concepts with each other, other areas, and personal interests
- Use mistakes as opportunities to advance learning
- Incorporate First Peoples worldviews, perspectives, knowledge, and practices to make connections with mathematical concepts

## CONTENT:

*Students are expected to know the following:*

- financial literacy:** personal investments, loans, and budgeting
- rate of change**
- how probability and statistics are used in different **contexts**
- interpreting graphs** in society
- 3D objects:** angles, views, and scale diagrams

## RESOURCE MATERIALS:

MathWorks 11 Textbook  
Locally developed supplemental packages

## MARKS ASSIGNMENT:

- 80% Coursework
- 20% Final Exam

## POLICIES AND PROCEDURES:

### 1) PREPARATION FOR CLASS

It is the student's responsibility to arrive for each class **on time** with their notebook, pencils, calculator, and textbook. Good work habits, effort, regular attendance, and completion of assignments contribute to successful achievement.

### 2) ABSENCES

Missing classes for any reason will have an impact on learning, assessment, and evaluation. Students absent from class, whether excused or unexcused, are solely responsible for obtaining and completing any missed assignments, work, or homework. **Your teacher is not required to make special arrangements for unexcused absences.**

- Students absent for illness, medical appointments, and other emergencies **must** contact their teacher **on the day they return to school** to submit overdue assignments, schedule missed assessments, and to receive missed work.
- Students absent for school related activities (ex. field trips, work experience, sports trips, etc.), **must** inform their teacher of this absence **well in advance** of the activity, in order to receive specific instructions on work that will be missed and the rescheduling of missed assessments.
- Students absent for any other reason, including family vacations, are considered **unexcused**. Any work or assessments missed for these absences may result in receiving a **zero** for that activity.

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(Parent / Guardian signature)