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| Apprenticeship & Workplace Mathematics 10 Course Outline |

Mathematics 10 Apprenticeship & Workplace is designed to develop skills to communicate and reason mathematically, make connections between the mathematical concepts to each other, other disciplines and personal interests, and focus on financial literacy which provides the knowledge and skills to make responsible economic and financial decisions with confidence.

**The student will**

* Use reasoning and logic to analyze and apply mathematical ideas
* Develop, demonstrate, and apply conceptual understanding of mathematical ideas
* Apply flexible strategies to solve problems in both abstract and contextualized situation
* Engage in problem-solving experiences that are connected to place, story, cultural practices, and perspectives relevant to local First Peoples communities, the local community, and other cultures
* Represent and communicate mathematical thinking and ideas in many ways

**Big Ideas**

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| **Proportional comparisons** can be made among right triangles, using trigonometry | Understanding **operations** helps when working with formulae and unit conversions. | Many **relationships** can be modelled and interpreted using graphs. | Varying the transversal allows us to notice **angle relationships.** | Analyzing simulations and **data** allows us to notice trends and relationships. |

**Content**

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| Operation | Computational Fluency |
| Proportional Comparison | Geometry and Measurement |
| Relationships | Pattern, graphing |
| Angle relationships | Geometry and Measurement involving primary trigonometric ratios; metric and imperial measurement and conversions; solving problems involving surface area and volume; angles |
| Financial literacy | gross and net pay |
| Data and Probability | create, interpret, and critique graphs; central tendency; experimental probability |

**Course Overview - Assessment and Evaluation:**

Several formative assessments will be used to check understanding and skill building throughout the semester. Summative assessment will be used for formal assessment relating to established learning standards at the end of a Topic/ a Unit/ semester. This assessment will be used to determine marks for formal reporting period.

**Grades**: [www.freshgrade.com](http://www.freshgrade.com)

Summative assessment guideline:

* Homework Assignments & In class Assignments– 15%
* Quizzes – 20%
* Tests – 30%
* Projects – 15%
* Final Exam – 20%

**Required Student Supplies**

* Pen/Pencil, Eraser, Lined Paper, Ruler, Protractor
* Calculator – Must have Trig function keys

**Classroom Expectations**

* Respect the teacher, yourself, others, and the learning environment. Treat others the way you like to be treated yourself.
* Regular attendance is extremely important! If you miss a class you are responsible for the work done. This includes copying notes and completing any work assigned during the missed class before the next class. With a note from home excusing your absence, you may write any missed test/quiz upon your return to class while missed labs must be made up within the designated time.
* Be on time for class. If you are late, you must fill out a late form explaining the reasons for your tardiness. Lates will require time to be made up before or after school. Three lates will result in a phone call home. Subsequent lates will result in more progressive measures.
* Actively participate. Engage in the classroom activities. Use time efficiently. Share ideas. Listen to others. Ask questions.
* Bring necessary supplies to class every day.
* If need help, you can drop in during lunch time or after school for extra help.
* Classroom has no hat policy and is strictly enforced.
* No cell phones or electronic devices are permitted in class, unless instructed otherwise.
* Food and drink are allowed in the classroom as long as the environment is respected.

Dear Parents, it is very important that parents/guardians are involved in their child’s education. Please take a few moments to read this outline with your child. Any questions, feel free to contact me at the school: Email - [parhar\_s@surreyschools.ca](mailto:parhar_s@surreyschools.ca) Phone: 604-588-3418 - ext. 2204

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Parent/Guardian Signature Date

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Student Name Student Signature