

MATH COURSES



(For more information on Math Courses offered at South Surrey/White Rock Learning Centre, please contact Victoria Laan at laan_v@surreyschools.ca)

COURSE OUTLINES



WORKPLACE MATH 10

Workplace Math 10 is intended for students who plan to go directly into the workforce, into some trades, or into other careers that would require practical, applied mathematics. If you plan to go to college or university, you may want to consider taking Foundations of Math & Pre-Calculus 10. Students who successfully complete this course usually continue on to Workplace Math 11. This course is not a valid prerequisite for Foundations 11 or Pre-Calculus 11.

The main topics in this course include:

- Graphing (Bar graphs, Line Graphs, Circle Graphs, etc.)
- Basic Data Statistics (Mean, Median, Mode, Range)
- Probability and Odds
- Measurement – Unit Conversions
- Trigonometry (Triangles)
- Surface Area & Volume
- Financial Literacy

FOUNDATIONS OF MATH & PRE-CALCULUS 10

FMP 10 is intended for students who plan to go to college or university. If you plan to go directly into the workforce, into certain trades, or into other careers that would only require applied mathematics, you may want to consider taking Workplace Math. Students who successfully complete this course usually continue on to Foundations 11 or Pre-Calculus 11.



The main topics in this course include:

- Trigonometry (Triangles)
- Exponents/Power Rules
- Polynomials (Algebra)
- Graph Properties
- Linear Equations
- Systems of Equations
- Financial Literacy



WORKPLACE MATH 11

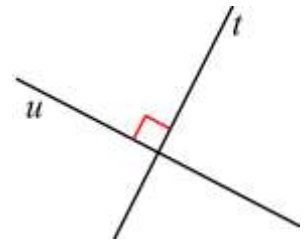
Workplace Math 11 fulfills your math requirements for graduation. This type of math is intended for students who plan to go directly into the workforce, into some trades, or into other careers that would require practical, applied mathematics. If you plan to go to college or university, please consider checking your program requirements or taking to the counsellor.

The main topics in this course include:

- Financial Literacy
- Slope (Steepness and Rate of Change)
- Probability & Statistics
- Interpreting Graphs in Society
- Scale and Diagrams

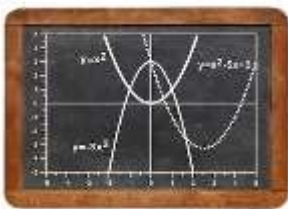
FOUNDATIONS OF MATH 11

FOM 11 fulfills your math requirements for graduation. This type of math is usually intended for students who plan to go to college or university in the arts. If you plan to go into the sciences or into trades, please talk to me before starting this course! There are some exemptions to this, so please confirm what type of math will be required for your particular program.



The main topics in this course include:

- Logic and Reasoning
- Angles, Shapes and Parallel Lines
- Introductory Statistics
- Linear Inequalities
- Quadratic Functions
- Systems of Equations
- Financial Literacy
- Proportional Reasoning and Scale



PRE-CALCULUS 11

PREC 11 fulfills your math requirements for graduation. This type of math is usually intended for students who plan to go to college or university in the sciences. If you plan to go into the arts or into trades, please talk to me before starting this course! There are some exemptions to this, so please confirm what type of math will be required for your particular program.

The main topics in this course include:

- Financial Literacy
- Trigonometry
- Number Systems and Exponent Rules
- Radical Expressions and Equations
- Quadratic Functions
- Quadratic Equations
- Rational Expressions and Equations
- Linear and Quadratic Inequalities

APPRENTICESHIP MATH 12

Apprenticeship Math 12 is an elective math 12 course that is not mandatory for graduation. This type of math is intended for students who plan to go directly into the workforce, into some trades, or into other careers that would require practical, applied mathematics. If you would like to spend a bit more time practicing general numeracy skills before graduation, this course would be a good choice.



The main topics in this course include:

- Accuracy, Precision and Probability
- Data and Statistics
- Linear Relationships
- Real-Life Decisions
- Properties of Figures
- Transformations
- Trigonometry



FOUNDATIONS OF MATH 12

Foundations Math 12 is an elective math 12 course that is not mandatory for graduation. This math course is accepted by some post-secondary programs as an alternative to Pre-Calculus 11. This math course offers a blend of practical, artistic, algebraic, and graphical mathematics topics. If your program requires this course, or if you would like to spend a bit more time practicing general math skills before graduation, this course could be a good choice.

The main topics in this course include:

- Fractals
- Geometric Constructions
- Graphs of Polynomial Functions
- Graphs of Logarithmic Functions
- Graphs of Exponential Functions
- Graphs of Sinusoidal Functions
- Regression Analysis
- Combinatorics
- Odds, Probability and Expected Value
- Financial Planning

PRE-CALCULUS 12

Pre-Calculus 12 is an elective math 12 course that is not mandatory for graduation. However, most post-secondary programs expecting rigorous math skills will require this course. Please check your program requirements carefully to confirm whether you will need this course.



The main topics in this course include:

- Function Transformations
- Radical Functions
- Polynomial Functions
- Trigonometry and the Unit Circle
- Trigonometric Functions and Graphs
- Trigonometric Identities
- Exponential Functions
- Logarithmic Functions
- Rational Functions
- Function Operations
- Combinatorics