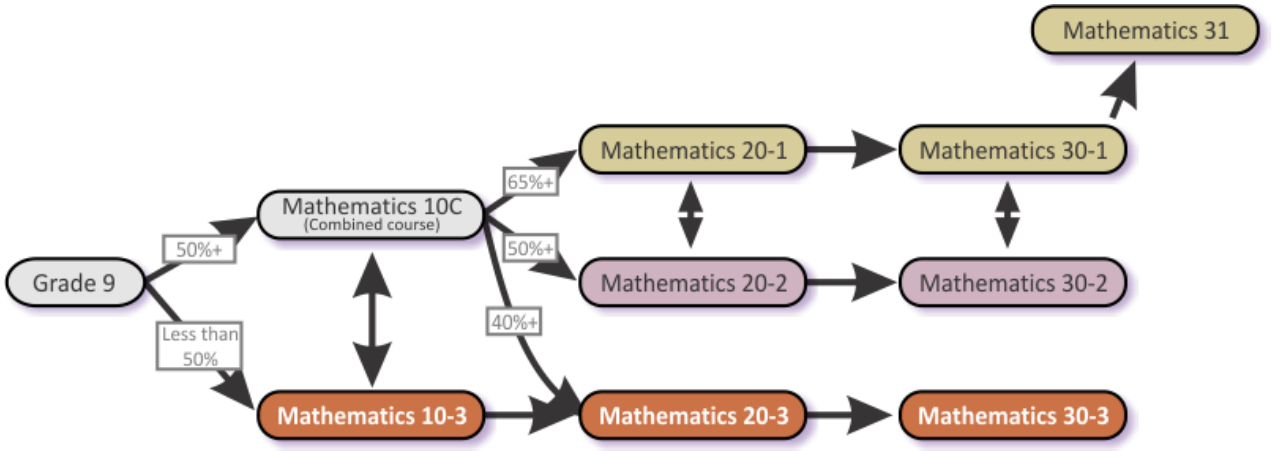
Edwin Parr Composite
Mathematics 10 Common Course Outline

Teacher: Mr. L. Zinnick
E-mail: Lee.Zinnick@aspenview.org
Course Website: http://lzinnick.weebly.com/math-10c.html

Mathematics 10 Common is designed for students who have passed grade 9 mathematics. This course is the prerequisite to either Mathematics 20-1 or Mathematics 20-2

New Course Sequences for Senior High Math



NOTE: Students require a graphing calculator for all Math streams except 10-3/ 20-3/ 30-3.

Course Evaluation

70% Class based work (assignments, quizzes, unit tests)
* all 7 units in the course are each equally weighted at 10% of your total grade *
30% Final Exam

Within each of the seven units of the course your grade will be based on:

35% In-class assignments and Quizzes (typically 2 – 3 per unit)
65% Unit Test

Textbook

Foundation and Pre-Calculus Mathematics 10 (Pearson)

Required Materials (these are needed for EVERY class)

- Graphing Calculator: Ti – 84, Ti – 84 Plus, Ti – 83 Plus, or Ti – 83 is recommended. TI-Nspire** IS allowed as long as it has the TI-84 keypad.
- Textbook, pencil, pen, straight edge and a 3-ring binder with paper.

Topics Covered in Math 10C

Topic	# of Class Days
Trigonometry	11
Measurement	10
Polynomials	12
Relations and Functions	7
Linear Functions	12
Radicals and Exponents	12
Systems of Equations	9

Missed Days and Extra Help

If a class is missed, *students are responsible* for obtaining a copy of the notes and finding out what homework or assignments have been missed. This means if you miss an assignment, quiz or exam, you are responsible for making it up – on your own time if necessary. *Taking personal responsibility for your own conduct and learning is the FIRST step in getting the rest of the world to start treating you like an adult!*

Students are **ALWAYS** encouraged to come for additional help when it's needed. I am available during most lunch hours in room 204 and every day after school from Monday to Thursday.

Classroom Guidelines and Expectations

For any individual to achieve in any math course an effective and helpful learning atmosphere must be created in the classroom. In my opinion the success of any individual is dependent on the success of the class as a whole. **Each student is responsible for their actions and attitudes.** The following guidelines clarify what is expected of you in Math 10C:

Respect: In this classroom we will respect each other's right to learn and teach or help. We will respect each other's right to an opinion, comment or question. Courtesy, tolerance and teamwork are always expected and required.

Class time:

It is expected that you will use class time as effectively as possible.

- At the beginning of class be prepared to discuss homework.
- We will then go into a new topic.
- When there is class time to work it is expected that you will work on the problems. Work until the bell. When working you should be in your desk, not up, not talking across the class.

Be on time and be prepared: Bring your workbook, pencil, notebook and calculator to every class.

Cell phones and music players: Cell phones will either be turned off or left in silent mode at ALL TIMES. If someone really needs to get a hold of you they can call the school. Music players will remain off while I'm teaching the lesson for the day. You MAY listen to them, with headphones, during seatwork. Cell phones are NOT calculators – so plan accordingly.

September 2016 - January 2017

Monday	Tuesday	Wednesday	Thursday	Friday
29 AUG Course Intro, Class Expectations, and review of Pythagorean Theorem and Solving Ratios	30 Using the TAN ratio to calculate lengths in Right Triangles	31 Using SIN and COS to calculate lengths	1 SEPT TAN RATIO for angles	2 Introduction to the SIN and COS Ratios for Angles
5 **No School: Labour Day**	6 Applying all three TRIG Ratios to solving problems with single right angle triangles (Day 1)	7 Applying all three TRIG Ratios to solving problems with single right angle triangles (Day 2)	8 **Review & Quiz** on solving simple right triangle problems with TAN, COS and SIN ratio	9 Solving Problems involving more then one Right Triangle
12 Review and Summary Quiz on Trigonometry	13 Go over the Summary Quiz and Review for the Unit Exam on Trigonometry	14 **UNIT EXAM on Trigonometry**	15 Introduce Unit on Measurement and discuss what will be happening during **Land Based Learning Week**	16 **No School: Staff Work Day**
19 **LAND BASED LEARNING**	20 **LAND BASED LEARNING**	21 **LAND BASED LEARNING**	22 **LAND BASED LEARNING**	23 **LAND BASED LEARNING**
26 Review of Conversions between SI and Imperial Units for Length	27 Volume of Right Pyramids and Right Cones	28 Surface Area of Right Pyramids and Cones	29 Surface Area and Volume of a Sphere	30 Surface Area and Volume for Composite Shapes
3 OCT Additional Practice with Surface Area and Volume of Pyramids, Cones and Spheres then **Quiz**	4 Go over SA and VOL quiz then Review for Unit Exam on Measurement	5 **UNIT EXAM on Measurement**	6 Factors and Multiples of Whole Numbers as well as LCM and GCF	7 **No School: Staff Work Day**
10 **No School: Thanksgiving Day**	11 Multiplying Monomials and Polynomials	12 Factoring Monomials and Polynomials by using a GCF	13 Multiplying Binomials and Trinomials	14 Factoring Polynomials of the form: x^2+bx+c
17 Polynomials of the form: ax^2+bx+c (Day 1)	18 Polynomials of the form: ax^2+bx+c (Day 2)	19 Multiplying and Factoring Special Polynomials	20 Additional Practice with Factoring and Multiplying Polynomial Expressions	21 Additional Practice with Factoring Polynomial Expressions and **Quiz**
24 Start chapter review on Polynomials	25 Continue review for Unit Exam on Polynomials	26 **UNIT EXAM on Polynomials**	27 Representing Relations and Properties of Functions	28 Interpreting Graphs and Plotting Data on a Graph
31 Rate of Change and determining the Intercepts for Graphs (Day 1)	1 NOV Rate of Change and determining the Intercepts for Graphs (Day 2)	2 Determining the Domain and Range of Graphs	3 Review for Unit Exam on Relations and Functions	4 **UNIT EXAM on Relations and Functions**
7 **No School: Day in Lieu**	8 **No School: November Break**	9 **No School: November Break**	10 **No School: November Break**	11 **No School: Rememberance Day**

September 2016 - January 2017

Monday	Tuesday	Wednesday	Thursday	Friday
14 Slope of a Line	15 Slopes of Parallel and Perpendicular Lines	16 Investigating the Graphs of Linear Functions from plotting their Equations	17 Slope-Intercept form of a Line (y = mx + b)	18 Slope Point form of a Line (y – y1) = m(x – x1)
21 Practicing with Slope-Intercept and Slope Point Form of a Line (Graphing and Equations)	22 Review and **Review Quiz** on content up to and including Slope-Point Form of a Line	23 Introduction to General Form of the Equation of a Line	24 Additional Practice with the Equation of a Line (all forms)	25 **No School: Staff Work Day**
28 Review Quiz on Linear Functions	29 Go over the first Review Quiz, and additional review for the exam on Linear Equations	30 **UNIT EXAM on Linear Functions**	1 DEC Estimating Roots - Focus is on Calculator Skills with different Indexes	2 4.2 Irrational Numbers
5 4.3 Mixed and Entire Radicals	6 Additional Practice Working with Mixed and Entire Radicals	7 4.4 Fractional Exponents and Radicals	8 4.5 Negative Exponents and Radicals	9 Review and **Review Quiz** on content up to and including Negative Exponents and Radicals
12 Introduction to Applying the Exponent Laws in Simpler Cases (Day 1)	13 Applying the Exponent Laws in More Complex Cases (Day 2)	14 Conclusion for Applying the Exponent Laws (Day 3) and start Unit Review for Radicals and Exponents	15 Review for Unit Exam on Radicals and Exponents	16 **UNIT EXAM on Roots and Powers**
19 **Make-up Day** (If needed) for lost classes during the semester OR additional course review	20 **Make-up Day** (If needed) for lost classes during the semester OR additional course review	21 **No School: Christmas Break**	22 **No School: Christmas Break**	23 **No School: Christmas Break**
2 **No School: Christmas Break**	3 **No School: Christmas Break**	4 JAN Introduction to Systems of Linear Equations and Review of Graphing Linear Equations	5 Solving a System of Linear Equations by Graphing (Day 1)	6 Solving a System of Linear Equations by Graphing (Day 2)
9 7.4 Solving a System of Linear Equations by using Substitution	10 7.5 Solving a System of Linear Equations by using Elimination	11 Additional Practice with Problem Solving with Systems of Linear Equations	12 Additional Practice and then Review Quiz for Systems of Linear Equations	13 Review for Unit Exam on Systems of Linear Equations
16 **UNIT EXAM on Systems of Linear Equations**	17 Course Review	18 Course Review	19 Course Review	20 Course Review
23 EXAM WEEK	24 EXAM WEEK	25 EXAM WEEK	26 EXAM WEEK	27 EXAM WEEK
30 EXAM WEEK	31 **No School: Staff Day/ Semester Break**	1	2	3