

991 St. Clair Ave. West Toronto, Ontario M6E 1A3 Telephone: (416) 393-1780 Fax: (416) 393-8169 Website: http://schools.tdsb.on.ca/oakwoodci/

Course of Study: <u>Principles of Mathematics</u>10_

Academic Year:	2018 - 2019	Teach	er Name: Ms. K	ent
Department:	Mathematics	Depar	tment Head:	S. Burtch
Date developed: June 2009		Revised: June 2015		
Course Title	Principles of Mathematics		Course Code	MPM2D1/3
Prerequisite	Principles of Mathematics, Grade 9, Academic		Grade	10
Level	Academic		Credit Value	1.0

Course Description Ontario Ministry of Education Document: This course enables students to broaden their understanding of relationships and extend their problem-solving and algebraic skills through investigation, the effective use of technology, and abstract reasoning. Students will explore quadratic relations and their applications; solve and apply linear systems; verify properties of geometric figures using analytic geometry; and investigate the trigonometry of right and acute triangles. Students will reason mathematically and communicate their thinking as they solve multi-step problems. Textbook: MathPower 10 – McGraw-Hill Ryerson

Instructional Strands/Units			
Strand/Unit Titles	Approx. Time Spent	e Overall Expectations/Unit Description	
Quadratic Relations of the Form $y = ax^2 + bx + c$	3 Months	 determine the basic properties of quadratic relations; relate transformations of the graph of y = x2 to the algebraic representation y = a(x - h)2 + k; solve quadratic equations and interpret the solutions with respect to the corresponding relations; solve problems involving quadratic relations. 	

Instructional Strands/Units (Cont'd)			
Strand/Unit Titles	Approx. Time Spent	Overall Expectations/Unit Description	
Analytic Geometry	3 Months	 model and solve problems involving the intersection of two straight lines; solve problems using analytic geometry involving properties of lines and line segments; verify geometric properties of triangles and quadrilaterals, using analytic geometry. 	
Trigonometry	3 Months	 use their knowledge of ratio and proportion to investigate similar triangles and solve problems related to similarity; solve problems involving right triangles, using the primary trigonometric ratios and the Pythagorean theorem; solve problems involving acute triangles, using the sine law and the cosine law. 	

Student Evaluation Criteria					
Term Work Categories		Culm	Culminating Activities		
		Cuim	Culminating Activities		
Knowledge/Understanding (K/U)	20%	Final Exam	20%		
Inquiry/Thinking (T/I)	15%	Culminating Activity	10%		
Communication (C)	15%				
Application (A)	20%				
Term Total 70%		Culmina	ating Activity Total 30%		

	First Report	Second Report	Interim Report	Final Report
Report Cards	Nov 24, 2017	Feb 13, 2018	Apr 19, 2018	Jun 28, 2018
Parent/Teacher Interviews	Nov 30, 2017	Feb 15, 2018		

Assessment of Learning Skills

The 6 learning skills: Responsibility, Organization, Independent Work, Collaboration, Initiative and Self Regulation, will be assessed using a variety of techniques including, but not limited to, homework checks, group work/research, class involvement, cooperative activities and independent work

Assessment and Evaluation Tools			
Knowledge/Understanding	Thinking/Inquiry and Application	Communication	
Quizzes	Investigations	Discussions	
Tests	Projects	Participation	
In-Class Assignments	Problem Solving	Written and oral	
Homework	Real-World Applications	communication of mathematical ideas	
	Explorations		
	Word Problems		

Communication		
Parents	Contact the Math department at 393-1790 ext. 20038	
Students	Contact your teacher in person Check your googleclassroom site	
Extra help	Mornings 8-8:30 Lunch Tues and Thursday Or please make an arrangement with me	
School Website	http://schools.tdsb.on.ca/OakwoodCl	

Department Policies

Success Plan 1. Come to class every day, on time, with a pencil, eraser, ruler, scientific calculator and binder. 2. Listen to, and participate in, the lesson. 3. Complete the work assigned in class. 4. Ask for help when you need it. 5. Help your classmates. 6. Complete all evaluations to the best of your ability. Textbooks Students will be issued a textbook for use during the school year and are expected to bring it to class each period. Replacement cost \$80 Evaluation Evaluation takes a balanced approach (see above) to the 4 categories of achievement (K/U, T/I, C, A) and blends these so that most evaluation tasks include 2 or more of the categories. For purposes of simplification, the final mark will be calculated as follows: Course Work, including: Tests, Quizzes, Assignments, etc. 70% (K/U, C, A)Culminating Activities (incl. Final Exam) 30 % (K/U, T/I, C, A)Teachers will communicate to students the approximate value of assignments and their placement in the evaluation chart. Attendance, Punctuality and Work Habits It is expected that students arrive punctually to all classes and that attendance is

It is expected that students arrive punctually to all classes and that attendance is regular. When students are absent, it is the responsibility of the student to find out what was missed. This should be done at an appropriate time such as before school on the date of return. Students are not to disrupt the learning of others by catching up on missed work during class. This includes requests for missed/lost handouts. All such matters should be dealt with before class commences.

Homework will be assigned on a regular basis. Students are expected to demonstrate initiative and self-direction in their approach to homework. Failure to do homework will adversely affect a student's ability to achieve high marks.

Class Website

Students are expected to regularly check the Google Classroom site for this course for posted assignments and resources. Students are encouraged to use the included calendar as an organizational tool to help ensure that all timelines are met.

Coursework – Tests, Assignments, etc.

Students are expected to write tests/quizzes on the set date. Students must make arrangements with the teacher in advance of the test date if they know that they will be away. In such cases, the student is expected to make arrangements with their teacher to make up the missed evaluation. If students are absent for an officially recognized excuse, they must present documentation and the teacher will set a date for an alternative test to be written.

Assignments – each assignment has a due date. Assignments are due at the start of the period on the due date, unless otherwise specified. Late assignments will be accepted until the ultimate due date. This is usually the date on which marked assignments are returned. After this date, assignments may not be submitted and the student will receive a zero. Teachers may use a variety of techniques to encourage students to submit late work. This may include, if necessary, a mark reduction of 10%.

Exams and Culminating Activities

Exams and culminating evaluations must be done on the due date. It is usually not possible to reschedule these evaluations or to provide alternative assignments. Therefore a mark of zero will be assigned unless suitable documentation (medical certificate, etc.) is received. In such cases, the teacher, in consultation with colleagues and the administration, will determine an appropriate mark.

Course:

Teacher:

Oakwood Collegiate Institute



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COURSE: _____

TEACHER: _____

Please acknowledge that you have read this outline:

Date:	Parent Signature
Date:	Student Signature

Please return this to

by