NOUVEL CATHOLIC CENTRAL HIGH SCHOOL

HONORS ALGEBRA I

COURSE SYLLABUS

2017-2018

COURSE DESCRIPTION:	Honors Algebra I is a one-year math course for ninth and tenth grade students with strong math and problem solving skills. The principles of
	Honors Algebra I serve as the foundation for all higher level math and science courses. Through equations, applications, and graphical representation, the course introduces students to the linear, quadratic, and exponential function families.
MAJOR COURSE GOALS:	Extend the properties of exponents to rational exponents.
	CCSS.Math.Content.HSN.RN.A.1
	CCSS.Math.Content.HSN.RN.A.2
	Use properties of rational and irrational numbers.
	CCSS.Math.Content.HSN.RN.B.3
	Reason quantitatively and use units to solve problems.
	CCSS.Math.Content.HSN.Q.A.1
	Interpret the structure of expressions.
	CCSS.Math.Content.HSA.SSE.A.2
	Write expressions in equivalent forms to solve problems.
	CCSS.Math.Content.HSA.SSE.B.3
	CCSS.Math.Content.HSA.SSE.B.3.a
	CCSS.Math.Content.HSA.SSE.B.3.b
	CCSS.Math.Content.HSA.SSE.B.3.c
	Create equations that describe numbers or relationships.
	CCSS.Math.Content.HSA.CED.A.1
	CCSS.Math.Content.HSA.CED.A.2
	CCSS.Math.Content.HSA.CED.A.3
	CCSS.Math.Content.HSA.CED.A.4
	Understand solving equations as a process of reasoning and explain the
	reasoning.
	CCSS.Math.Content.HSA.REI.A.1
	Solve equations and inequalities in one variable.
	CCSS.Math.Content.HSA.REI.B.3
	CCSS.Math.Content.HSA.REI.B.4.b
	Solve systems of equations.
	CCSS.Math.Content.HSA.REI.C.5
	CCSS.Math.Content.HSA.REI.C.6

Represent and solve equations and inequalities graphically.
CCSS.Math.Content.HSA.REI.D.10
CCSS Math Content HSA RELD 11
CCSC Meth. Content UCA DELD 12
CCSS.Math.Content.HSA.KEI.D.12
Understand the concept of a function and use function notation.
CCSS Math Content HSF IF A 1
CCSS Math Content LISE IE A 2
CCSS.Main.Content.HSF.IF.A.2
CCSS.Math.Content.HSF.IF.A.3
Interpret functions that arise in applications in terms of the context.
CCSS Math Content HSF IF B 4
CCSS Math Content USE IE D 5
CCSS.Math.Content.HSF.IF.D.J
CCSS.Math.Content.HSF.IF.B.6
Analyze functions using different representations.
CCSS Math Content HSE IF C 7 a
CCSS Math Content USE IE C 7 h
CCSS.Math.Content.HSF.IF.C.8
CCSS.Math.Content.HSF.IF.C.8.a
CCSS.Math.Content.HSF.IF.C.8.b
CCSS Math Content HSE IF C 9
Build a function that models a relationship between two quantities.
CCSS.Math.Content.HSF.BF.A.1.a
CCSS.Math.Content.HSF.BF.A.2
Build new functions from existing functions
Build new functions from existing functions.
CCSS.Math.Content.HSF.BF.B.3
Construct and compare linear, quadratic, and exponential models and solve
problems.
CCSS Math Content HSE LE A 1 b
CCSS.Math.Content.HSELE.A.1.0
CCSS.Math.Content.HSF.LE.A.2
CCSS.Math.Content.HSF.LE.A.3
Interpret expressions for functions in terms of the situation they model.
CCSS Math Content HSF LE B 5
COSS.Muul.Content.HSI .LE.D.5
Summarize, represent, and interpret data on a single count or measurement
variable
CCSS.Math.Content.HSS.ID.A.1
CCSS Math Content HSS ID A 2
CCSS Math Contant USS ID A 2
Summarize, represent, and interpret data on two categorical and
quantitative variables

	CCSS.Math.Content.HSS.ID.B.5
	CCSS.Math.Content.HSS.ID.B.6.a
	CCSS.Math.Content.HSS.ID.B.6.b
	CCSS.Math.Content.HSS.ID.B.6.c
	Interpret linear models
	CCSS.Math.Content.HSS.ID.C.7
	CCSS.Math.Content.HSS.ID.C.8
	CCSS.Math.Content.HSS.ID.C.9
COURSE ASSESSMENT	The student will demonstrate their attainment of the course goals through a
PLAN:	variety of assessments. Each chapter will have at least one quiz and one
	test. Chapter assessments will include show-your-work problems and short
	answer conceptual questions. Course grades are calculated on a percentage
	basis: 10% tests and quizzes, 30% homework and other assignments. A
	comprehensive exam will be given at the end of each semester. Semester
	grades will be calculated according to school policy.
RECOMMENDED	The learner is required to bring the following to class everyday:
SUPPLIES AND	Text book
MATERIALS:	• Loose leaf and graph paper
	• Pencils preferred, no pens please
EXTRA HELP:	Additional classroom teacher assistance is provided to the student before
	and after school upon request. Never be afraid to ask for help. Remember
	that your success depends on you and your effort.
INSTRUCTIONAL	Student participation is at the core of every teaching strategy used in the
DITLOSODIV.	course. During each class period students will review past material during
PHILOSOPHY:	the warm-up and homework check learn new material through an
	interactive lesson or group investigation and demonstrate understanding
	through a closure activity. At the honors level extensions are frequently
	made to give the student a clear sense of how Algebra I concepts provide a
	foundation for higher levels of math and science. The honors level student
	is expected to have solid understanding of basic arithmetic of integers.
	fractions and decimals. Though calculators will be used during certain
	topics, they are not permitted for general use in the honors class.
INSTRUCTIONAL	A variety of learning styles will be addressed through instructional
ACTIVITIES AND COURSE	activities such as homework problems, group investigations, hands-on
PROJECTS:	activities, warm-ups and exit tickets.
CLASSBOOM	The learner is expected to unhold the values and policies of the Nouvel
	Catholic Community The Parent/Student Handbook policies are set
EAPECIAIIUNS:	forth to create a safe learning environment that will enable you to gain a
	mastery of academia and become a leader in the world. The policy will
	be enforced.

	 Come prepared to class every day and ready to learn. Be in his/her assigned seat with the required materials <u>before the</u> <u>bell rings</u>, otherwise, he/she is marked tardy. Contribute positively to the learning environment in the classroom. Show respect toward self, other students, teacher and all personal/school property by words and actions. Be in compliance with the dress code at all times. ATTENDANCE: Attendance is crucial. Students are expected to attend every scheduled class. It is the learner's responsibility to keep informed of any announcements, syllabus adjustments, or policy changes made during scheduled classes.
HOMEWORK POLICY AND GRADING SCALE:	 Practice is <i>essential</i> to success in Honors Algebra I. Homework is assigned each day and due the next day. Every problem assigned should be attempted and all work must be shown. Late homework will be accepted, unless otherwise stated, as long as it is completed outside of class time. Late work must be turned in before the completion of the chapter within which it was assigned. Letter grades are determined by the grading scale listed in the student handbook.
CONTACT INFORMATION:	
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