



Dominican International School
Course Syllabus
School Year 2026–27



Subject	Pre- Algebra
Grade Level	Grade 7
Teacher	Ms. Victoria Santiago
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COURSE DESCRIPTION:

Beginning Algebra Mathematics is intended to review concepts that are important for students to learn Algebra. The students will learn to do basic operations with numbers in different forms (e.g., fractions, decimals, percentages). In addition, the students will learn basic problem-solving techniques crucial for critical thinking. The course will follow the Common Core State Standards (CCSS).

COURSE OBJECTIVES:

Ratios and Proportional Relationships

- Analyze proportional relationships and use them to solve real-world and mathematical problems.

The Number System

- Apply and extend previous understandings of operations with fractions to add, subtract, multiply, and divide rational numbers.

Expressions and Equations

- Use properties of operations to generate equivalent expressions.
- Solve real-life and mathematical problems using numerical and algebraic expressions and equations.

PRIMARY TEXTBOOKS AND OTHER RESOURCES:

Beginning Algebra 9th Edition by John Tobey et al.

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<https://quizizz.com>

GRADING SYSTEM/ASSESSMENT:

Pop Quizzes will be conducted every now and then.

Students will be given a quiz after the completion of every chapter.

Quarter exams will be conducted at the end of each quarter.

Homework, Seatwork, and Group work will also be assessed.

This course will be assessed on the following four categories:

- Tests and Quizzes = 30%
- Seatwork, Homework and Participation = 30%
- Quarter Examination = 30%
- Deportment = 10%

ADDITIONAL INFORMATION:

Please see Google Classroom for more information.

Google Classroom code for 7J: **xqolafe2**

Google Classroom code for 7T: **6suylfnf**

ACADEMIC DISHONESTY:

Academic Dishonesty means employing a method or technique or engaging in conduct in an academic endeavor that contravenes the standards of ethical integrity expected at DIS.

Academic dishonesty includes but is not limited to the following:

- Purposely incorporating the ideas, words of sentences, paragraphs, or parts thereof without appropriate acknowledgment and representing the product as one's work;
- Representing another's intellectual work, such as photographs, paintings, drawings, sculpture, research, or the like, as one's own, including failure to attribute content to an AI.
- Employing a tutor, using Artificial Intelligence without acknowledgment, getting a parent to write a paper or do an assignment, and paying for an essay to be written by someone else and presented as the student's work.
- Committing any act that a reasonable person would conclude, when informed of the evidence, to be a dishonest means of obtaining or attempting to obtain credit for academic work.

Any act of academic dishonesty will result in an automatic zero on the entire assignment/learning task.

WEEKLY SCHEDULE

First Quarter Tentative Course Content

Week & Date	Topics / Projects / Assessments
Week 1 Aug 10 – 14 Monday Class Preparation ~ Student Holiday Tuesday Morning Assembly Friday Opening Mass & Assumption of Our Lady 8:00	Orientation Introduction to class rules and regulations. Register online textbook Chapter 0: A Brief Review of Arithmetic Skills 0-1: Simplifying Fractions.
Week 2 Aug 17 - 21	Chapter 0: A Brief Review of Arithmetic Skills 0-2: Adding and Subtracting Fractions. 0-3: Multiplying and Dividing Fractions. 0-4: Using Decimals.
Week 3 Aug 24 - 28	0-5: Percent, Rounding and Estimating. 0-6: Using the Mathematics Blueprint for Problem Solving. Q₁-Test 1 (0.1 – 0.6).
Week 4 Aug 31 - Sep 4	Chapter 1: Real Numbers and Variables 1-1: Adding Real Numbers. 1-2: Subtracting Real Numbers. 1-3: Multiplying and Dividing Real Numbers.
Week 5 Sep 7 - 11	1-4: Exponents. 1-5: The Order of Operations. Q₁-Test 2 (1.1 – 1.3).
Week 6 Sep 14 - 18	1-6: Using the Distributive Property to Simplify Algebraic Expressions. 1-7: Combining Like Terms. 1-8: Using Substitution to Evaluate Algebraic Expressions and Formulas.

Week 7 Sep 21 – 25 T-W-Th Pre-Exam Days Friday Moon Festival ~ Public Holiday	1-9: Grouping of Symbols. Q₁-Test 3 (1.4 – 1.9)
Week 8 Sep 28 - Oct 2 Monday Confucius' Birthday ~ Public Holiday Thursday Major Exams Day 1 Friday Major Exams Day 2	Review for the Quarter Exam First Quarter Examination
Week 9 Oct 5 - 9	Monday Record Day ~ Student Holiday T-W-Th Teachers Conference ~ Student Holiday Friday Double 10 Day ~ Public Holiday

Second Quarter Tentative Course Content

Week & Date	Topics / Projects / Assessments
Week 1 (10) Oct 12 - 16	Chapter 2: Equations and Inequalities 2-1: Addition Principle of Equality. 2-2: The Multiplication Principle of Equality.
Week 2 (11) Oct 19 - 23	Chapter 2: Equations and Inequalities 2-3: Using the Addition and Multiplication Principles Together 2-4: Solving Equations with Fractions. Q₂-Test 1 (2.1-2.3).

Week 3 (12) Oct 26 - 30	2-5: Formulas. 2-6: Solving Inequalities in One Variable. Q₂-Test 2 (2.4-2.6).
Week 4 (13) Nov 2 - 6 Monday Retrocession Day ~ Public Holiday	Chapter 3: Solving Applied Problems 3-1: Translating English Phrases into Algebraic Expressions. 3-2: Using Equations to Solve Word Problems. 3-3: Solving Word Problems: Comparisons.
Week 5 (14) Nov 9 - 13	3-4: Solving Word Problems: The Value of Money and Percent. 3-5: Solving Word Problems Using Geometric Formulas. Q₂-Test 3 (3.1-3.3).
Week 6 (15) Nov 16 - 20	3-6: Using Inequalities to Solve Word Problems. Q₂-Test 4 (3.4– 3.6).
Week 7 (16) Nov 23 – 27 T-W-Th Pre-Exam Days Friday Grade 12 Exams	Chapter 4: Exponents and Polynomials 4-1: The Rules of Exponents. 4-2: Negative Exponents and Scientific Notation. Q₂-Test 3 (4.1– 4.2)
Week 8 (17) Nov 30 - Dec 4 Monday Grade 12 Exams	4-3: Fundamental Polynomial Operations. 4-4: Multiplying Polynomials.
Week 9 (18) Dec 7 - Dec 11	Monday TBD Tuesday Foundation Day Mass 9:00, Cutting of the Cake Ceremony, Christmas Fair, (Whole day) Wednesday TBD

	Thursday Major Final Exams half day Friday Major Final Exams half day
Dec 14 to Jan 1 Christmas Break	

Third Quarter Tentative Course Content

Week & Date	Topics / Projects / Assessments
Week 1 (19) Jan 4 - Jan 8 Monday Record Day ~ Student Holiday Friday New Year Mass at 8:00	Give out Second Quarter Exam papers and discuss the answers. Chapter 4: Exponents and Polynomials 4-5: Multiplication: Special Cases.
Week 2 (20) Jan 11 - Jan 15	4-6: Dividing Polynomials. Chapter 5: Factoring 5-1: Removing a Common Factor. Q3-Test 1 (4.5 & 4.6).
Week 3 (21) Jan 18 - Jan 22	Chapter 5: Factoring 5-2: Factoring by Grouping. 5-3: Factoring Trinomials of the Form: $x^2 + bx + c$.
Week 4 (22) Jan 25 - Jan 29	5-4: Factoring Trinomials of the Form: $ax^2 + bx + c$. 5-5: Special Cases of Factoring. Q₃-Test 2 (5.1– 5.3)
Week 5 (23) Feb 1 - Feb 5 Thursday Little New Year's Eve ~ Public Holiday Friday	5-6: A Brief of Factoring. Chapter 7: Graphing and Functions 7-1: The Rectangular Coordinate System.

Lunar New Year ~ Public Holiday	
<i>February 8 to 12: Chinese New Year Holiday</i>	
Week 6 (24) Feb 15 - Feb 19	7-2: Graphing Linear Equations. 7-3: The Slope of a Line. Q₃-Test 3 (5.4– 5.6)
Week 7 (25) Feb 22 - Feb 26 22-26 IOWA Assessments	7-4: Writing the Equation of a Line. 7-5: Graphing Linear Inequalities. Q₃-Test 4 (7.1-7.3)
Week 8 (26) Mar 1 - Mar 5 Monday Memorial Day ~ Public Holiday T-W-Th Pre-Exam Days	7-6: Functions. Q₃-Test 5 (7.4-7.6).
Week 9 (27) Mar 8 - Mar 12	Chapter 8: Systems of Equations 8-1: Solving a System of Equations in Two Variables by Graphing.
Week 10 (28) Mar 15 - Mar 19	8-2: Solving a System of Equations in Two Variables by the Substitution Method. Revision for the Third Quarter Examination.
Week 11 (29) Mar 22- Mar 26	Tuesday Major Final Exams half day Wednesday Major Final Exams half day Thurs - Fri Easter Break (Spring Break) ~ Public Holiday
<i>March 25 to April 2 Easter & Spring Break</i>	

Fourth Quarter Tentative Course Content

Week & Date	Topics / Projects / Assessments
Week 1 (30)	Give out Third Quarter Exam papers and discuss the answers.

Apr 5 - Apr 9 Monday Tomb Sweeping Day ~ Public Holiday Tuesday Children's Day ~ Public Holiday	Collect their seatwork grades and show the students their final average.
Week 2 (31) Apr 12 - Apr 16	Chapter 8: Systems of Equations 8-3: Solving a System of Equations in Two Variables by the Addition Method. Q₄-Test 1 (8.1– 8.3).
Week 3 (32) Apr 19 - Apr 23 19 - 23 AP Mock Exams	8-4: Review of Methods for Solving Systems of Equations. 8-5: Solving Word Problems Using Systems of Equations.
Week 4 (33) Apr 26 - Apr 30 T-W-Th Pre-Exam Days Friday Labor Day ~ Public Holiday	Chapter 9: Radicals 9-1: Square Roots. 9-2: Simplifying Radical Expressions. Q₄-Test 2 (8.4 & 8.5).
Week 5 (34) May 3 - May 7 3 - 7 Final Exams (K, Gr. 5, 8, & 12 Only) 3 - 14 AP Exams	9-3: Adding and Subtracting Radical Expressions. 9-4: Multiplying Radical Expressions. Q₄-Test 3 (9.1-9.3).
Week 6 (35) May 10 - May 14	3 - 14 AP Exams Wednesday Major Final Exams Undergraduates half day

	Thursday Major Final Exams Undergraduates half day Friday Record Day ~ Student Holiday
Week 7 (36) May 17 - May 21	Monday Gr. 12 Recollection (Morning) Monday Baccalaureate Mass (Afternoon, Schoolwide) Wednesday House Sports Day Thursday High School Field Trip Friday House Culminating Activity All Week Student Clearance Days & Special Events
Week 8 (37) May 24 - May 28	Monday Middle & High School Sports Day Monday LS Field Trip Tuesday Kindergarten Graduation/Gr. 5 Promotion Wednesday Gr. 8 Graduation and Gr. 12 Graduation Thursday Pre-Kindergarten & Gr. 1 - 4, 6 & 7, 9-11 Recognition Friday Last Day of School for Students