

MA732O/ Algebra 1-1 Syllabus

Course Title----- Algebra 1-1
Course Number----- MA732O
Grades:----- 09-11
High School Credit Value:----- 0.5
Prerequisites:----- Mastery of the concepts in pre-algebra.

Course Length:----- Regular courses: 17 weeks
CR: 9-17 weeks.

Course Time:----- Regular courses: 17 week schedule: 75 - 90
minutes per school day (6-7.5 hours per
week)
Credit Retrieval: 75 - 90 minutes per
school day (6-7.5 hours per week) until
course completion.

{ Course Description }

This first semester of algebra 1 course covers real numbers, introduction to algebra, writing and solving equations, proportional reasoning, writing and solving inequalities, graphs and functions, as well as graphing equations.

Because high school students have unique needs and experiences, CompassLearning ensures that students know where they are while challenging them to grow. Odyssey High School Math focuses on foundational skills to support learners, emphasizes repetition and practice of key skills, reinforces study habits, including note-taking, to sharpen students' comprehension, and covers National Mathematics Advisory Panel's concepts for success in algebra.

Course Materials:

The student should plan on 60 to 90 minutes of working in this math class per week day.

This math class requires the use of the online text book Odyssey. The student will run a system checkup in order to be able to fully take advantage of the course. This course may be taken on the PC or Mac platform.

The student is encouraged to participate with the instructor online, thus the student may want to have headphones with a microphone in order to meet with the teacher online.

State Alignments

Washington State Standards guided the design of the course. Learning expectations are found within the course itself.

CCSS	Description	Unit Number
A.SSE	Seeing Structure in Expressions	2
A.APR	Arithmetic with Polynomials and Rational Expressions	2nd Semester
A.CED	Creating Equations	3, 4, 5, 6
A.REI	Reasoning with Equations and inequalities	3, 7
F.IF	Interpreting Functions	6
F.BF	Building Functions	7
F.LE	Linear and Exponential Models	2nd Semester
N.Q	Quantities	1, 6
S.ID	Interpreting Categorical and Quantitative Data	6, 7

Course Outline

MTH731 - Algebra 1-1 - (First semester of the first year of algebra.) - Some Units and lessons may overlap during some weeks.

Units	Lessons	17 Week Learning Plan Contract	12 week Learning Plan Contract
Unit 1 - Real Numbers	Absolute Value, Operations with Integers, Square Roots and Irrational Numbers	3 Weeks	2 Weeks
Unit 2 - Introduction to Algebra	Algebraic Expressions, Problem Solving Plan, Adding and Subtracting Algebraic Expressions	2 Weeks	2 Weeks
Unit 3 - Writing and Solving Equations	Equations with Rational Numbers, Multi-Step Equations, Equations with Variables on Both Sides, Solving for a Variable and Formulas	2 Weeks	2 Weeks
Unit 4 - Proportional Reasoning	Ratio and Proportion, Percents, Percent Increase and Decrease, Experimental and Theoretical Probability, Probabilities of Ind. and Dep. Events, Permutations and Combinations	3 Weeks	2 Weeks
Unit 5 - Writing/Solving Inequalities	Writing/Graphing Inequalities: One Variable, One-Step Inequalities, Two-Step and	3 Weeks	2 Weeks

	Multi-Step Inequalities, Inequalities with Variables on Both Sides, Compound Inequalities		
Unit 6 - Graphs and Functions	Displaying Data, Intro to Coordinate Plane and Relations, Identifying Functions, Function Rules, Tables, and Graphs, Writing a Function Rule, Arithmetic Sequences	3 Weeks	2 Weeks
Unit 7 - Graphing Equations	Slope, Using x-and y- intercepts, Function Forms, Writing the Equation of a Line, Parallel and Perpendicular Lines, Scatter Plots and Correlations	2 Weeks	2 Weeks

Course Flow

The student will begin working in the Odyssey text book to receive instruction in the different skills. Then the student participates in quizzes where the student's goal is to achieve a 70% or better in score before moving forward in the textbook. The student will have three attempts to reach the 70% or better mark.

Upon completion of a unit of lessons the student will take a cumulative Chapter Test. This score is then given to the instructor within the iA math course unit folder as the reflection assignment.

Students are also required to complete weekly summative assessments entitled, checkpoints. These checkpoints require the student to demonstrate their complete understanding of the different skills presented to them each week. Correct answers are only worth 2 points of the 5 point total as the remaining 3 points are earned with their explanation that goes with their process of arriving at their response.

Course Work

The homework that is completed for this course is assigned on the student's Learning Plan Contract or pacing guide found in the students Unit page. The Learning Plan Contract of 17 or 12 weeks is based upon the student's contracted start and end date.

The student is required to complete the weekly checkpoint as assigned on the Learning Plan Contract as well as reflection assignments that will contain their percentage earned on the "Chapter Test" after their efforts in the different units.

Grading

Grades will be generated from the following:

Weekly Checkpoints - These checkpoint summative assessments have the student demonstrating to the instructor their complete understanding of taught skills.

Chapter Test Results - This Chapter Test score is a summative assessment based upon the students learning and practicing within the various lessons of the unit. This assignment includes having the student reflect upon their learnings for the unit and their Chapter Test percentage.

Revision Policy - While working within the Odyssey text book, the student is able to attempt the quizzes up to three times to surpass the 70% mark until they are able to move ahead. The student is not able to "redo" or "revise" the Chapter Test activity. Currently, teachers are unable to "reset" this test. So, students want to make sure that they do their best on their first only attempt.

Checkpoints are able to be revised one more time based upon teacher feedback given the first attempt.

Grades - Grades are posted within the iA math course. Students can click on the Student Grades tab in their class to view their gradebook. Grades or scores in the Odyssey textbook are there for the student and parent to see their practice and progress in the different skills. Only the Chapter Test score will be placed within the iA math gradebook. As stated above, the gradebook will be consisted of checkpoint scores and chapter test scores.

Occupational Credit:

This course may qualify for *occupational credit. Please consult your school counselor for further clarification.

*Please note that FLA901 (Sign Language) does not qualify for occupational credit.

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