



Course Name	Integrated Math 3
Prerequisite	Integrated Math 2
Course Description	In Integrated Math 3, students will expand their understanding of area and volume with geometric modeling, which students will apply throughout the course as they learn new types of functions. Students will study polynomial, radical, logarithmic, rational, and trigonometric functions. They will also learn how visual displays and statistics relate to different types of data and probability distributions.

Unit of Study	Content Standards/Grade Level Expectations	Approximate Time Spent	Targeted Date of Assessment
Geometric Modeling	Shape, Dimension, and Geometric Relationships	3 weeks	1st Semester
Linear and Quadratic Functions	Patterns, Functions, and Algebraic Structures	4 weeks	1st Semester
Polynomial Functions	Patterns, Functions, and Algebraic Structures	5 weeks	1st Semester
Rational Exponents and Radical Functions	Patterns, Functions, and Algebraic Structures	4 weeks	1st Semester
Exponential and Logarithmic Functions	Patterns, Functions, and Algebraic Structures	4 weeks	2nd Semester
Rational Functions	Patterns, Functions, and Algebraic Structures	3 weeks	2nd Semester
Sequences and Series	Patterns, Functions, and Algebraic Structures	3 weeks	2nd Semester
Trigonometric Ratios and Functions	Shape, Dimension, and Geometric Relationships	4 weeks	2nd Semester
Data Analysis and Statistics	Data analysis, Statistics, and Probability	4 weeks	2nd Semester

Assessment/Practice Proficiency Levels		Course Grade Scale	
4	Advanced Understanding of the standard	A	98.5 - 100
3	Meets the Standard	B	79.5 - 89.4
2	Approaches the Standard	C	69.5 - 79.4
1	Does not meet the Standard	D	59.5 - 69.4
		F	0 - 59.4

Grade Reporting Criteria/Weights		
Grade Reporting Criteria	Semester 1	Semester 2
Patterns, Functions, and Algebraic Structures	56%	42%
Shape, Dimension, and Geometric Relationships	14%	14%
Data analysis, Statistics, and Probability	0%	14%
Procedural Fluency	10%	10%
Mathematics Communication	10%	10%
Practice	10%	10%

Grades are based on achievement of Content Standards and Grade Level Expectations.

*Weekly progress grades are posted at <https://ic.adams12.org/campus/portal/adams12.isp>



GRC: Patterns, Functions, and Algebraic Structures	
<p>Semester 1: Linear and Quadratic Functions: Students will work with familiar function families while using transformations.</p> <p>Polynomial Functions: Students will explore division of polynomials using multiple methods and the connection between algebraic and graphical models.</p> <p>Rational Exponents and Radical Functions: Students will connect rational exponents with radical functions.</p>	<p>Semester 2: Exponential and Logarithmic Functions: Students will make connections between exponential functions and logarithmic functions, both graphing and solving.</p> <p>Rational Functions: Students will learn about asymptotes and will work on simplifying, solving and graphing rational expressions and equations.</p> <p>Sequences and Series: Students will extend their learning around arithmetic and geometric sequences to include recursive functions and analyzing sequences and series.</p>
GRC: Shape, Dimension, and Geometric Relationships	
<p>Semester 1: Geometric Modeling: Students will use their previous knowledge of area and volume to solve more complex real world problems. They will also explore revolutions of shapes to form solids.</p>	<p>Semester 2: Trigonometric Ratios and Functions: Students will connect angle measures and radians, use all 6 trigonometric ratios, and expand trig functions from right triangles to graphing and the unit circle.</p>
GRC: Data analysis, Statistics, and Probability	
<p>Semester 1: NONE</p>	<p>Semester 2: Data Analysis and Statistics: Students will analyze and interpret statistical findings connected to normal distributions. They will also learn about collecting data without bias and make inferences based upon that data.</p>
<p>Procedural Fluency: Your ability to carry-out the most efficient strategy without making arithmetic errors. Skills Challenge and SAT Practice.</p>	
<p>Mathematics Communication: Your ability to explain, construct, critique math reasoning, and interpret results in context</p>	
<p>General Expectations: Grades are based upon the demonstration of proficiency on units associated within specific grade reporting criteria.</p> <ul style="list-style-type: none"> Assessments are a means to determine a student's mastery and understanding of information, skills, concepts, or processes. Assessments will be graded based on teacher/district/state rubrics. For some units there may be a quiz approximately half way through the unit. Practice includes opportunities for students to receive clear, specific, and timely feedback as they are developing knowledge and skills, prior to Assessments. Practice may be scored as Satisfactory (s), Incomplete (I), Unsatisfactory (U), or Missing (M). Procedural Fluency is a measurement of the basic skills necessary for success in this class. 	
<p>Missing/Make-up Work: Superintendent Policies 6280 Homework and 6281 Make-up Work will be followed for this course. They state that it is the student's responsibility to request and obtain missing work. When a student has an excused absence, the student has the same number of days they were absent plus one day to make up assignments. Students who are unexcused may not be able to receive feedback from practice prior to required Assessments.</p>	
<p>Late Work: In order to promote lifelong learning skills, late work will not be accepted for credit past the unit Assessment.</p>	
<p>Plagiarism/Cheating: Students are held to the Academic Integrity Policy for Mountain Range High School. Plagiarism means to present, as one's own work, writing, words, ideas, or computer information of someone else. These sources could be either published or unpublished. Cheating is supplying, receiving or using inappropriate devices to improve performance on a test or assessment. Students who engage in plagiarism or cheating will be disciplined according to school discipline matrix.</p>	