



Course Name	Instructor	Instructor E-mail & Availability
Integrated Algebra/Geometry 1	Andrew Nguyen	anguyen@aps.k12.co.us before, after school and during lunch
Course Website	Class Meeting Times & Location:	Prerequisites
http://central.aurorak12.org/	Room 403	None

Course Description

Quarter 1: Functions & Algebra
 Quarter 2: Functions, Algebra & Geometry
 Quarter 3: Geometry & Algebra
 Quarter 4: Probability & Statistics

Standards

See below

Learning Outcomes by Quarter

Quarter 1
 Preview

- o Interpret the structure of expressions (2.3a)(A.SSE.A.1)
- o Understand the concept of a function and use function notation. (2.1a)(F.IF.A.1,2)
- o Interpret functions that arise in applications in terms of the context (2.1b) (F.IF.B.4,6)
- o Analyze functions using different representations (2.1c) (F.IF.C.7,9)
- o Construct and compare linear and exponential models and solve problems (2.2a) (F.LE.A.1,2)
- o Interpret expressions for functions in terms of the situation they model. (2.2b) (F.LE.B.5)
- o Build a function that models a relationship between two quantities (2.1d) (F.BF.A)

Linear Functions

- o Create equations that describe numbers and relationships (2.4a)(A.CED.A.1-3)
- o Understand solving equations as a process of reasoning and explain the reasoning (2.4b)(A.REI.A.1)
- o Solve equations and inequalities in one variable (2.4c)(A.REI.B.3)
- o Solve systems of equations (2.4d)(A.REI.C.6)
- o Represent and solve equations and inequalities graphically (2.4e)(A.REI.D.10-12)

Quarter 2
 Exponential Functions

- o Interpret the structure of expressions (2.3a) (A.SSE.A.1)
- o Create equations that describe numbers and relationships (2.4a) (A.CED. A.1-3)
- o Interpret functions that arise in applications in terms of the context. (2.1b) (F.IF.B.4-6)
- o Construct and compare linear and exponential models and solve problems (2.2a) (F.LE.A.1-3)
- o Interpret expressions for functions in terms of the situation they model (2.2a) (F.LE.B.5)

Geometry

- o Experiment with transformations in the plane (4.1a) (G.CO.A.1-5)

Quarter 3

Geometry

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o Understand congruence in terms of rigid motion (4.1b) (G.CO.B.6-8)

o Prove geometric theorems (4.1c) (G.CO.C.9-11)

Functions and Expressions

o Build new functions from existing functions (2.1e) (F.BF.A.1)

o Create equations that describe numbers or relationships (2.4a) (A.CED.A.2 – 4)

Systems of Equations

o Create equations that describe numbers and relationships (2.4a) (A.CED.A.1-4)

o Solve systems of equations (2.4d) (A.REI.C5-6)

Quarter 4

Statistics

o Interpret linear models (3.1c) (S.ID.C.8-9)

o Summarize, represent, and interpret data on two categorical and quantitative variables. (3.1b) (S.ID.B.5-6)

Probability

o Understand independence in probability and use it to interpret data (3.3a) (S.CP.A.1-5)

Required Supplies

Notebook, pencil, and a great attitude.

Grading

Students will be graded on a 4 point scale for all assignments

Point	Letter Grade	Explanation
3.0-4.0	A	In addition to the performance score of 3.0, the student demonstrates in depth inferences and applications that extend beyond what was taught.
2.5-2.99	B	There are no major errors or omissions regarding any of the information and/or processes (simple or complex) that were explicitly taught. This level is mastery
2.0-2.49	C	There are no major errors or omissions regarding the simpler details and processes, but there are major errors or omissions regarding the more complex ideas and processes.
1.0-1.99	D	With help, the student demonstrates a partial understanding of some of the simpler details and processes and some of the more complex ideas and processes.
Below 1.0 or No Evidence	F	Even with help, the student cannot demonstrate understanding of the simple details.

School Policies**REQUESTS FOR HOMEWORK**

Students requiring homework assignments due to extended excused absences (three days or more) should initially contact the attendance office. The attendance office will notify teachers and collect assignments from individual teachers. Assignments should be ready for pick up 24 hours after a request has been made. Please call the attendance office to check homework status.

MAKE-UP WORK DURING ABSENCES

Any time a student misses a class for any reason whatsoever, that student will be expected to contact each

teacher and complete the make-up work in order to achieve the learning objective. This includes field trips, school activities, suspensions, group sessions, trancies, and the like. Make-up work is required and students who have been absent from class must request make-up work from the teacher no later than the next class meeting. Teachers will determine a reasonable amount of time for make-up work when students are absent, using a two days for every one day absent guideline.

Teachers may provide an "alternative" learning experience for make-up work to any student who requests it upon returning to class. For example, a student may have been absent from a class at which the daily learning objective was achieved by means of a class discussion. At the teacher's sole discretion, students who were absent during that discussion might be assigned a two or three-page written essay due three or four days after the student's return to class as an 'alternative' learning experience for that objective.

Teachers will give academic credit to all make-up work that complies with the above guidelines. The only exception is that teachers have the choice whether or not to give academic credit to the make-up work from an unexcused absence. If the absence was unexcused, the teacher should provide feedback but is not required to give credit for the work.

TARDY POLICY

After three tardies teachers will conference with the student and contact home. After 5 tardies students can be referred to the Learning Center and additional consequences may be assigned.

PASSES

Students who leave the classroom or are excused from class must have a pass with correct validation by the teacher. School officials may send for a student using an authorized Administrative Pass. Students who are without official passes will be subject to disciplinary action. Passes will not be given in the first 10 minutes or last 10 minutes of class.

NON-ACADEMIC TECHNOLOGICAL DEVICES

Aurora Public Schools believes in providing environments that optimize learning and teaching and are safe, secure, and well maintained. As such, all personal electronic devices* shall not be seen nor heard during the school day in academic areas of the building from 7:30 A.M. to 3:45 P.M. *Cell phones, iPods, headphones, portable speakers, MP3s, tablets, cameras, etc. **Aurora Central High School is not responsible for lost, stolen or damaged electronic devices.** This includes electronic devices that are confiscated by staff. Aurora Central High School reserves the right to not investigate lost, stolen or damaged electronic devices.

Classroom Policies

- BE PROMPT
- BE PREPARED
- BE POLITE
- BE PRODUCTIVE

Tear off and return THIS PAGE only and return to _____(teacher).

I have carefully read the expectations of this course and agree to support the goals and initiatives of the course. I will show up, speak up, stand up and go further than I ever thought possible.

Student name: _____(print)

Grade _____ Period _____

Student Signature: _____

Parent/Guardian Name: _____

Parent/Guardian Signature: _____

Parent/Guardian Phone Number: _____

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Parent/Guardian Email: _____



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Integrated Algebra/Geometry 2	Andrew Nguyen	anguyen@aps.k12.co.us before, after school and during lunch
Course Website	Class Meeting Times & Location:	Prerequisites
http://central.aurorak12.org/	Room 403	Integrated Algebra/Geometry 1

Course Description

Quarter 1: Functions & Algebra
 Quarter 2: Quadratics
 Quarter 3: Trigonometry and Similarity
 Quarter 4: Probability, Geometry, and Function Families

Standards

See below

Learning Outcomes by Quarter

Quarter 1

- o Interpret functions that arise in applications in terms of the context (2.1b) (F.IF.B.4)
- o Analyze functions using different representations (2.1c) (F.IF.C.7)
- o Build new functions from existing functions (2.1e,d) (F.BF.A.1)
- o Interpret the structure of expressions (2.3a) (A.SSE.A.1)
- o Create equations that describe numbers or relationships (2.4a) (A.CED.A.2 – 4)
- o Represent and solve equations and inequalities graphically (2.4e) (A.REI.D.11)

Quarter 2

- o Interpret the structure of expressions (2.3a) (A.SSE.A.1)
- o Choose and produce an equivalent form of an expression to reveal and explain properties of the quantity represented by the expression. (2.3b)(A.SSE.B3)
- o Explain each step in solving a simple equation as following from the equality of numbers asserted at the previous step. (2.4b) (A.REI.A.1)
- o Solve simple rational and radical equations in one variable, and give examples showing how extraneous solutions may arise. (2.4b) (A.REI.A.2)
- o Solve a simple system consisting of a linear equation and a quadratic equation in two variables algebraically and graphically. (2.4d) (A.REI.C.7)
- o Explain why the x-coordinates of the points where the graphs of the equations $y = f(x)$ and $y = g(x)$ intersect are the solutions of the equation $f(x) = g(x)$; find approximate solution with graphs and tables(2.4e) (A.REI.D.11)
- o Use the method of completing the square to transform any quadratic equation in x into an equation of the form $(x - p)^2 = q$ (2.4c) (A.REI.B.4a)

o Solve quadratic equations with real coefficients that have complex solutions. (2.1d) (N.CN.C.7)

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Quarter 3

- o Define trigonometric ratios and solve problems involving right triangles (4.2c) (G-SRT.C.6,8)
- o Apply trigonometric ratios to general triangles (4.2c) (G-SRT.D.10)
- o Use congruence and similarity criteria for triangles to solve problems and to prove relationships in geometric figures. (4.2b) (G.SRT.B.5)
- o Understand similarity in terms of similarity transformations (4.2a) (G.SRT.A.1-3)

Quarter 4

- o Understand independence and conditional probability and use them to interpret data. (3.3a) (S.CP.A)
- o Use the rules of probability to compute probabilities of compound events in a uniform probability model (3.3b) (S.CP.B)
- o Analyze functions using different representations (2.1c) (F.IF)
- o Perform arithmetic operations on polynomials (2.3c) (A.APR)
- o Explain volume formulas and use them to solve problems (4.4A) (G.GMD)

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