

Course Description:

DCPS is following the [Illustrative Math Curriculum](#), in which students explore more complex problem-based situations and deepen their explanations of algebraic relationships, moving towards formal mathematical arguments. Students begin the course with a study of sequences, which is also an opportunity to revisit linear and exponential functions. Building on their work with linear, quadratic, and exponential functions, students extend their repertoire of functions to include polynomial, rational, and radical functions. Students work closely with expressions that define the functions and expand their abilities to model situations and to solve equations, including solving quadratic equations over the set of complex numbers and solving exponential equations using the properties of logs. The Standards of Mathematical Practice, along with the course content standards, prescribe that students experience mathematics as a coherent, useful, and logical subject enables them to make sense of problem situations.

Office Hours:

By appointment only. Students can email or see the teacher after class to set a meeting during advisory time and get an "Advisory Pass".

Class Materials:

Each student is required to have following materials during class:

1. 3-subject notebook (8-1/2" x 11" with large sheet count)
2. Pencils and Erasers (because mistakes are a part of the learning process)
3. Highlighters (at least 3)
4. Calculators (Ti-84, online access via canvas, Desmos)
5. Laptop (Fully charged each night)

Course Topics: (note: Honors Algebra 2 moves faster than regular Algebra 2 and explores more topics)

Unit 1: Sequences and Functions

Unit 2: Polynomials and Rational Functions

Unit 3: Complex Numbers and Rational Exponents

Unit 4: Exponential Functions and Equations

Unit 5: Transformations of Functions

Unit 6: Trigonometric Functions

Unit 7: Statistical Inferences

Lesson Pacing:

Students will complete roughly 3 topics a week to stay on pace with DCPS – see monthly calendars for specifics.

Honors students are expected to have higher math skills and therefore ready to learn more topics. Honors classes will be required to complete the additional topics DCPS has recommended. Honors courses will complete roughly 4 topics a week in a full five-day school week – see monthly calendars for specifics.

This course has scheduled benchmark assessments, so it is important to complete assignments on time to stay on pace in the course.

Math Journal:

- 3-subject notebook (8-1/2" x 11" with large sheet count)
- This is a journal of each student's math work throughout the year to use as a reference.
- Each assignment must have a Title (topic name), date, methods/procedures with example problems, lesson summary in students own words, and graphic organizers (when needed).
- Students are required to show their work because:
 - It reinforces problem solving skills and increases fluency in solving problems.
 - Practice proper mathematical notation.
 - It is a record of what topics a student has learned and what they still need assistance with.

Due Dates:

All assignment due dates can be found on Canvas and in class. If you see a "WS" in Aspen, this means that you did not submit your assignment. If you see a "F" in Aspen, this means that your assignment is either incomplete or you received the lowest score. In either case students will be given an opportunity to complete any missing work and improve their grade before end of the term. It is highly recommended that you speak or inform the teacher if you are unable to make a due date. **Per DCPS policy, the highest grade one can earn for late and make-up assignments is an 80%.**

Online Resources:

We will be using Canvas as the main hub for all the assignments. Desmos and DeltaMath will be utilized as learning tools. Aspen will house your final grades for each assignment.

Cell Phones:

Cell phones and headphones should not be visible during class. The use of any non-permitted electronic device can result in disciplinary action.

Grading Weight:

Student Engagement 10%	<ul style="list-style-type: none">• Math Journal• Class Participation
Practice & Application 50%	<ul style="list-style-type: none">• Desmos Lessons, Practice Problems, Cool down.• Homework
Assessments 40%	<ul style="list-style-type: none">• Quiz every 2 weeks• End of unit assessments (RCT)• ANET assessments• MAP

Grading Policy:

Term Percentage Earned	Term Grade Assigned	Value Assigned to Grade	Value Assigned to Grade for Honors
93% to 100%	A	4.0	4.5
90% to 92%	A-	3.7	4.2
87% to 89%	B+	3.3	3.8
83% to 86%	B	3.0	3.5
80% to 82%	B-	2.7	3.2
77% to 79%	C+	2.3	2.8
73% to 76%	C	2.0	2.5
70% to 72%	C-	1.7	2.2
67% to 69%	D+	1.3	1.8
64% to 66%	D	1.0	1.5
63%	F		

*******Important*******

DCPS attendance policy dictates that:

- 30 or more unexcused absences in a school year will automatically result in a failure (FA) for the year.
- Students have 5 days to turn in a note to the attendance counselor for an absence to be marked as excused.

“You can't put a limit on anything. The more you dream, the farther you get.”

— Michael Phelps