

COURSE OVERVIEW
Learning to Think & Communicate

The Math Mission

An educated person knows how to Think and Communicate, Collaboratively and Creatively. That is defined for us as Claims known in this class as the 6-C's:

- 1) **Conceptually Understand** mathematical principles and demonstrate **Procedural Fluency**,
- 2) **Critically Think** in a mathematical context,
- 3) **Communicate Reasoning** in a technical field,
- 4) **Construct Models** of the natural world,
- 5) **Create** freely and joyfully in the problem solving process,
- 6) **Collaborate** productively with others.

These C's also encompass the Standards of Mathematical Practice (SMP) for the Common Core.

- 1) Makes Sense of Problems and Persevere in **Solving** in Them
- 2) **Reason** Abstractly and Quantitatively
- 3) Construct **Viable Arguments** and Critique the Reasoning of Others
- 4) **Model** with Mathematics
- 5) Use Appropriately **Tools** Strategically
- 6) Attend to **Precision**
- 7) Look For and Make Use of **Structure**
- 8) Look For and Express Regularity in **Repeated Reasoning**

Requirements

PORTFOLIO & SUPPLIES: In order to pass this course, you will complete an extensive portfolio. The details of the portfolio are stipulated elsewhere. Your separate 3-ring binder with eight dividers will be provided for you and will remain in the classroom. The only supplies you need to provide is a pencil or pen. Everything else will be supplied for you.

PRACTICE PROBLEMS: They may be assigned regularly through our adopted textbook's digital system. Your responsibility is to give an intelligent response to all exercises and problems.

TASKS & ASSESSMENTS: These complex problems may involve group investigations as well as individual assessments and write-ups.

THE MASTERPIECE: The Master Piece is a special project due near the conclusion of the second semester. It is to be a self-generated application or presentation concerning a topic that you choose.

MASTERY QUIZZES: For the priority standards you will be expected to pass a mastery quiz. You will be asked to retake these until you pass them.

GROUP QUIZZES: Quizzes are the only portion of your grade that will be group-evaluated (i.e. group members all get the same grade.) You will take the quiz in your groups. Group Quizzes will be given almost weekly.

UNIT EXAMS: Each unit exam will be cumulative.

FINAL EXAM: If you score higher than your course grade on the final exam, your course grade will be raised one letter grade. If you score equal to or one grade lower than your course grade, you maintain your grade. If you score two or more grades below, or with a C you score less than 60%, your grade will be lowered one letter grade. (Best Deal on Campus)

Grading

Everything that you submit in this class will be evaluated on the following 5-Point Rubric (A-I):

<u>Grade</u>		<u>Criterion</u>
A+	5	Beautiful Answer & Beautiful Process
A	4	A Minor Error
B	3	A Major Error or Several Minor
C	2	Basic Understanding with Major Errors
Not Yet	1	Attempted with Little/No Understanding
INC	0	Incomplete/No Response

**** NOTE ****

Failure to submit an acceptable product for any graded assignment (Tasks or Masterpiece) will result in an incomplete for the course, which equates to an F on the report card.

An acceptable assignment is defined as one that receives at least a “C” grade or a “2” on the Rubric. This policy helps achieve the two major goals in the course: that the students learn the subject matter, and that the students pass the course. The incomplete policy helps prevent students from acquiring too many “low scores.” In the end everyone who complies wins.

With the exception of tests and quizzes, all punctual assignments may be resubmitted for a possible upgrade. Late work will be penalized one letter grade within the first week of the due date. Any work more than one week late will be given a zero, but must still be submitted in order to remove the incomplete.

Your scores are then averaged and weighted according to the 6-C’s shared above. Improvement in learning as well as student input is considered at the end of each grading period.

<u>Category</u>	<u>SMP</u>	<u>Weight</u>
Concepts & Procedures	#7 Structures & #8 Patterns	20%
Critical Thinking	#1 Solving & #6 Precision	20%
Communicating Reasoning	#2 Reasoning & #3 Conjectures	20%
Constructing Models	#4 Modeling & #5 Tools	20%
Creativity		10%
Collaboration		10%

With the tools and opportunities that will be presented to you, in combination with your natural born talents and my experience and expertise, I have little doubt that you will learn and grow tremendously in this class. I look forward to our journey together.

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C. Shore

Student Signature

Parent Signature