Advanced Mathematical Decision Making

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Welcome to AMDM Seniors! You are about to experience a math class in a way you have never learned math before. You will get to use math in real world applications from analyzing data to probability and statistics, and something all seniors need- Understanding financial data! You will be applying prior knowledge from your previous math classes to real application problems.

Unit I: Analyzing Numerical Data • Using Ratios, Rates, and Percents • Using Averages, Weighted Averages, and Indices • Estimating Large Numbers • Using Check Digits to Validate Identification Numbers	**Unit II:** Probability • Determining Probabilities • Everyday Decisions Based on Probabilities • Expected Value
Unit III: Analyzing Statistical Studies • Case Study Analysis • Univariate Data • Bivariate Data • Statistical Investigations • Statistical Analyses • Sources of Variability	**Unit IV/V:** • Linear Regression • Exponential Growth and Decay • Cyclical functions • Piecewise Functions
Unit VI: • Income and tax calculations • Present and future values of investments • Calculating interest • Using and understanding credit • Analyzing salaries and benefits to determine career choices	

How this class is different: In this class, I will not be standing at the board giving instruction while you take notes. You have already learned all the mathematical knowledge you will need to be successful in this class. This class is all about *applying* what you have learned about math.

Grading. A note about all quizzes and tests- You will be allowed ONE (1) notecard (3 x 5 size) per assessment. You may NOT SHARE notecards with anyone. You may use anything you write on that notecard and you may write on both sides. You will turn it in when you turn in your test

The other major part of your grade will be in projects and presentations. It is not enough to just write down a number, you need to be able to argue and justify your reasoning by presenting to a crowd.

Major Summative (Tests/Major Projects)   45%
Minor Summative (Major Quizzes/Minor Projects)   20%
Mini Quiz Almost Theres (MQAT)   10%
Formative Assignments (Daily Tasks)   15%
Final   10%

In order to be successful in this class you MUST 'buy in' to how we are going to do things. Every year you complain about 'when are we ever going to USE this' and now you finally get to see how. What you get out of this class is directly related to what you put in. If you don't work through the activities, if you don't participate in groups or presentations you will get nothing out of this class and your grade will reflect that. In this class you will have the opportunity to learn math in a completely new way but only if you decide you finally want to learn how math is used outside of high school.

Attendance / Missed Assignments:
The material learned in this class is primarily based on in-class group activities and presentations. Which makes it VITAL that you are in class **everyday**.

If you are absent the day groups are assigned you will have to work on the activity on your own when you return. You get one extra day for each missed absence. After that it will be considered late.

If you are absent for a work day/presentation day in a group you will have to finish and present the assignment on your own.

BE IN CLASS.

REMIND101
I will periodically send out text reminders to anyone who signs up to our class. Simply follow the instructions below to sign up for you class period to receive these reminders (standard text messaging rates apply)

Text @oldham3 to 81010   for period 3

Supplies
- 3 ring binder (date everything!) with paper!
- Pencils
- Calculator

ELECTRONIC DEVICES:
May only by used with teacher permission. The human race has survived for thousands of years without needing to snapchat, text, tweet, vine, instragram etc. every few minutes so YOU CAN TOO.

Teacher has right to alter/add information to the syllabus

AMDM- OLDHAM FALL '16
STUDENT INFORMATION **(PRINT CLEARLY!!)**

Student Name_____

Student email

Are you applying to college? Yes/No

What are your top choices? _____

Will you need College recommendations from me? Yes/No

If you will need a recommendation for me please abide by the following
- You will need to provide a pre-addressed and stamped envelope to the school you are applying
- Give me your current college resume (I want to know what other extracurriculars you are involved in)
- I need a minimum of 5 days to complete so do NOT come up to me and say "I need this recommendation by tomorrow!" because I will say no.

When you get accepted and have decided on which school you are going to, let me know and I will put you on our class map of "Where are we going to college".

Parent email

Parent email #2

Parent Phone_____; Parent Phone #2 _____

Please answer the following questions
1) I have access to the internet at home   YES   NO

2) I have access to a working printer at home   YES   NO

3) I have access to Microsoft Word/ Powerpoint at home   YES   NO

REMIND101:I will use a service that sends out text messages to update parents about assignments, progress and upcoming assessments. If you are willing to receive these text messages please text the following: (standard text messaging rates apply)
@oldham3 to 81010 for third period

   Parent and student have read the syllabus and understand the requirements for this class. Both parent and student will check Synergy for grades and the website for assignment updates regularly especially when absent.

                Student Signature_____

                Parent Signature_____