

## Advanced Quantitative Reasoning

2021-2022

Mrs. Landry – Room 2214

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### WELCOME

Thank you for choosing to further your education with Advanced Quantitative Reasoning! Not only will you learn about using math in the real world, you will also learn about group work, cooperation, and being brave in a math class. It's going to be great! AQR builds on, reinforces, and extends what students have learned previously and covers a range of new mathematic topics.

AQR emphasizes statistics and finance and includes advanced work on numerical reasoning, as well as algebraic and geometric modeling and topics from discrete mathematics. The course offers student activities in a range of applied contexts and helps students develop college and career readiness skills.

### GRADING:

Semester grades are based on the following weighted averages:

Classwork	= 15%
Projects	= 35%
Tests (including Final Exam)	= 50%

### TCA Grading Scale:

A 93 – 100	B 83 – 86	C 73 – 76	D 63 – 66
A- 90 – 92	B- 80 – 82	C- 70 – 72	D- 60 – 62
B+ 87 – 89	C+ 77 – 79	D+ 67 – 69	F 0 – 59

Infinite Campus is updated regularly. Rubrics for every project and the test reviews for every unit are uploaded to each assignment.

### CLASSWORK:

Daily classwork usually consists of group work in the workbook and then a class-wide debrief of the material. You will receive a 10-point grade for every assignment based on your participation in both the group work and debrief. This grade does not necessarily happen every day. Quizzes are also included in the classwork category. They are individual 10-point grades. You may use your notes on quizzes.

### PROJECTS:

To fully demonstrate understanding of the math concepts, you will complete several projects. There is one project per unit, and they are used as an assessment tool much like the end-of-unit tests. Projects are long term assignments and require time outside of class to complete them. They are often accompanied by a presentation.

### TESTS:

There is one test per unit. You are allowed to use any notes you have taken throughout the unit in your workbook. If you have an excused absence the day of a test, you must make it up the day you come back. **All unexcused absences will result in a zero, no exceptions.**

**MATERIALS:**

Every day you should bring the following items to class:

- Current unit workbook

- Pencils and erasers
- Graphing Calculator (TI 83 or 84 preferred)

**MAKE-UP WORK:**

You are responsible for finding out what was done in class while you were gone. If you are absent for any reason, you are expected to complete that day's lesson in the workbook. You will show me your work to gain any points missed from a debrief session. If you are going to be missing for a field trip, athletic event, or pre-arranged absence you must see me before you leave and obtain any missing work. If a test or major project is missed, you are responsible for completing that on the day that you return. If an absence occurs the class period before a test or project, then you are required to complete the test or project on the assigned day since all major grade assignment dates are given ahead of time.

**TOPICS COVERED:**

Unit 1: Analyzing Numerical Data

Unit 2: Probability

Unit 3: Analyzing Statistical Data

Unit 4 and 5: Using Recursion and Regression in Models and Decision Making

Unit 6: Decision Making in Finance

Unit 7: Networking and Graph Theory

**STUDENT EXPECTATIONS:**

Come Prepared: Be ready to learn; have paper, pen/pencil, book, planner, and homework.

Be Respectful: Use appropriate tone and language when speaking, wait until others are done speaking before you speak, be polite to every person on campus.

Be In the Proper Place: Be in class on time, have a hall pass, use the closest restroom. See the student handbook for a complete description of the school's tardy policy.

Engage in Learning: Participate, pay attention, take notes, and complete class assignments.

Show Responsibility: Complete assignments, turn in work on time, do your own work

Be Honest: Students are expected to do their own work. It is considered cheating if you copy someone else's work. Academic dishonesty will not be tolerated.

**EXTRA HELP**

I am available for drop-in extra help before school starting at 7:00 am.

Advanced Quantitative Reasoning

Welcome to AQR! Please feel free to contact me at any time. My classroom phone number is (719) 484-0091 ext. 2214 and my school email is [alandry@asd20.org](mailto:alandry@asd20.org).

Student Name: \_\_\_\_\_

Parent/Guardian,  
I would like to know the way you would like me to contact you:

\_\_\_\_\_ I would prefer to be contacted via e-mail. My e-mail address is: \_\_\_\_\_

\_\_\_\_\_ I would prefer to be contacted via telephone. My phone number is: \_\_\_\_\_

**I have read and understand the course description.**

**Student Signature:** \_\_\_\_\_

**Parent/Guardian Signature:** \_\_\_\_\_