**Algebraic Connections Syllabus**

**Ms. Brown**

**Contact Information:**  Email: [martisha.brown@elmoreco.com](mailto:martisha.brown@elmoreco.com)

Planning: 5th period, 11:29 - 1:06 (Mon, Tues, or Fri)

11:20 – 1:17 (Wed)

**Course Description:** Algebraic Connections is a course designed for students who wish to increase their mathematical knowledge and skills prior to enrollment in the Algebra II course or the Algebra II With Trigonometry course. Algebraic Connections expands upon the concepts of Algebra I and Geometry, with an emphasis on application-based problems. This course provides opportunities to incorporate the use of technology through its emphasis on applying functions to make predictions and to calculate outcomes. The prerequisites for Algebraic Connections are Algebra I and Geometry.

**Algebraic Connections Standards**

1. Create algebraic models for application-based problems by developing and solving equations and inequalities, including those involving direct, inverse, and joint variation.

2. Solve application-based problems by developing and solving systems of linear equations and inequalities.

4. Determine maximum and minimum values of a function using linear programming procedures.

**\*\*End of 1st 9 weeks\*\***

12. Create a model of a set of data by estimating the equation of a curve of best fit from tables of values or scatter plots.

7. Use analytical, numerical, and graphical methods to make financial and economic decisions, including those involving banking and investments, insurance, personal budgets, credit purchases, recreation, and deceptive and fraudulent pricing and advertising.

10. Critique measurements in terms of precision, accuracy, and approximate error.

**\*\*End of 2nd 9 weeks\*\***

5. Determine approximate rates of change of nonlinear relationships from graphical and numerical data.

3. Use formulas or equations of functions to calculate outcomes of exponential growth or decay.

6. Use the extreme value of a given quadratic function to solve applied problems.

**\*\*End of 3rd 9 weeks\*\***

8. Determine missing information in an application-based situation using properties of right triangles, including trigonometric ratios and the Pythagorean Theorem.

11. Use ratios of perimeters, areas, and volumes of similar figures to solve applied problems.

9. Analyze aesthetics of physical models for line symmetry, rotational symmetry, or the golden ratio.

**\*\*End of 4th 9 weeks\*\***

**INow Home Portal**: Each student/parent will receive a login. You will be able to monitor grades, attendance and view lesson plans.

**Remind101**: Reminders will be sent out for homework, tests, tutoring dates/times, and any other necessary announcements. Please join your class listed below.

**1st Period**: Text **@1algconn** to ***81010***

**3rd Period**: Text **@3algconn** to ***81010***

**6th Period:** Text **@6algconn** to ***81010***

**7th Period** Text **@7algconn** to ***81010***

**The following items will need to be purchased for this class:**

1. 3 ring binder (at least 1 ½ in) – can be used for more than one class
2. loose leaf notebook paper
3. quad paper (for graphing)
4. Pencils, Pencils, Pencils!!
5. Calculator (TI-30XIIS)
6. Composition Notebook

**Teacher Wish List:**

These items are used throughout the year. Your donations are greatly appreciated!!

Kleenex Paper Towels Clorox Wipes

Hand Sanitizer Expo Markers Pencils

**Assessments and Grading:**

Throughout the year, students will be graded through several forms of assessment. Not all assignments will be taken-up and graded. Nevertheless, students are required to complete all assignments for their own benefit.

Grades will be weighted according to the following scale:

**Tests 60%**

**Daily Work 35%**

**Benchmark 5%**

Detailed progress reports will be issued approximately every 4 weeks to be signed by parent or legal guardian. Report **cards will be sent home at the end of every nine weeks to be signed by a parent or legal guardian.**

**Make-up Work/ Tests:** It is the responsibility of the student to check with me when they return to class for any missed assignments that occurred during their absence. All make-up assignments must be returned within 3 days of returning. Unexcused absences will be given a zero for the assignment until excuse is submitted to the office. Make-up for missed tests will be done afterschool at an agreed upon time or during Indian Period. **Tests will not be made up during instructional time.**

**Late Work**: Since assignments are designed to help students succeed and understand concepts, late work will be accepted. However, only 70% credit will be awarded on grade received on assignment. Work is considered late if it is not turned in with the entire class unless student is absent from class. **Late work will not be accepted after test is administered on that material.**

**Classroom Rules:**

1. Be respectful to all.
2. Be on time.
3. Be seated.
4. Be quiet.
5. Be prepared for class.
6. Follow directions.

**Consequences**: The following is a sequence of consequences that will occur in response to undesirable student behavior.

* 1st Offense – Teacher/Student conference (potential parent notification)
* 2nd Offense – Parent notification by teacher and consequences for actions
* 3rd Offense: Parent notification and assignment to ISS
* 4th Offense: Referral to an administrator as a Class II offense

**NOTE: Be sure to read the school handbook for additional school-wide policies and procedures not covered in this plan.**

**Cell Phone Procedures:** Cell phones will be placed in specified storage area upon entering the classroom unless teacher indicates they will be needed for instructional purposes.

If student is observed using cell phone without prior approval during class time, the following plan will be enforced.

* 1st offense: Students will receive a verbal warning and parents will be notified of student’s noncompliance with school procedure.
* 2nd offense: Students can receive up to 3 days in ISS.
* 3rd offense: Students can receive up to 5 days in ISS or other school designated discipline.
* All other offenses can result in out of school suspension.
* Student in possession of cell phone/electronic device (including smart watches) during test will receive a grade of zero.

**Restroom Passes**: The restroom is available to all students before school, in between classes (4 minutes), during break, and during lunch. Instructional time is extremely important so students will only be allowed to leave class in emergency situations.

**Food/Drinks in the Classroom:** No food or drink is permitted in the classroom. If caught with food, it will be thrown away and the student will be written up on a classroom management form.

**\*** Ms. Brown reserves the right to make any changes as she deems necessary throughout the school year to the syllabus.