

**Jefferson County Schools
Course Syllabus**

A. Course Seventh Grade Mathematics

B. Department Mathematics

C. Course Description Mathematics 700 is designed to prepare junior-high students for Pre-algebra. This course focuses on strengthening needed skills in problem solving, number sense, and proportional reasoning. It also introduces students to integers, equations, and geometric concepts. Students will begin to see the "big picture" of mathematics and learn how numeric, algebraic, and geometric concepts are woven together to build a foundation for higher mathematical thinking.

By the end of the course, students will be expected to do the following:

- Gain an increased awareness of how math is a life skill.
- Understand how math gives us different ways to model or express the same thing.
- Explore concepts taught in previous math courses, but at higher levels, applying the concepts to real world situations.
- Use proportional reasoning in order to model and solve real world problems.
- Utilize new skills and concepts that will help them in future math courses.

D. Grade Term: 9 Weeks

E. Grading Scale:

<u>Range</u>	<u>Regular</u>
93-100	A
85-92	B
75-84	C
70-74	D

F. Term Dates:

- a. 1st 9 Weeks August 5, 2016 – October 7, 2016
- b. 2nd 9 Weeks October 8, 2016 – December 16, 2016
- c. 3rd 9 Weeks January 5, 2017 – March 15, 2017
- d. 4th 9 Weeks March 16, 2017 – May 25, 2017

G. Textbook(s)

- a. Glencoe McGraw-Hill Math Connects, Course 2, 2012

H. Other Resources

- a. Odysseyware (online)
- b. Carnegie Learning (online teacher resource)

I. Procedures for Parental Access to Instructional Materials

- a. Aspen Parent Portal: Students and parents can access Aspen from the Jefferson County Schools website located under “District” in the left-hand pane. For detailed instructions on how to use the student portal, or for instructions on how to set up a new account, please go to www.jc-schools.net and click on the blue “Parents” tab at the top. From the dropdown menu click on the “Documents” tab. Click on the file containing the PDF document titled “Family and Student Aspen Portal”.
- b. Odysseyware: Students can access Odysseyware from the Jefferson County Schools website by logging on to the Office 365 Portal located under “District” in the left-hand pane. Upon login, students will click on the app titled “Odysseyware” in order to access needed lessons and materials.
 1. Student login: (insert student name)@student-jcboe.net
 2. Password: student’s lunch number
 3. Alternative site for login: jcboe.owschools.com
- c. Parent Teacher Conferences:
 1. There are two designated conference dates during the school year: September 8, 2016 and March 30, 2017. Requests for additional conferences with teachers (during planning periods), school counselors, or administration should be made by telephoning the school at (865)475-6133.

J. Field Trips

- a. Any scheduled fieldtrip(s) will have a definite educational purpose and will reflect careful planning. Signed permission forms will be obtained when an off campus trip is planned.

K. Standards & Objectives

- a. Mathematical Practices
 1. Make sense of problems and persevere in solving them.
 2. Reason abstractly and quantitatively.
 3. Construct viable arguments and critique the reasoning of others.
 4. Model with mathematics.
 5. Use appropriate tools strategically.

6. Attend to precision.
7. Look for and make use of structure.
8. Look for and express regularity in repeated reasoning.

b. TN Mathematics Standards Overview

1. Ratios and Proportional Relationships (CC7.RP.1, CC7.RP.2, CC7.RP.2a, CC7.RP.2b, CC7.RP.2c, CC7.RP.2d, CC7.RP.3)
 - Analyze proportional relationships and use them to solve real-world and mathematical problems.
2. The Number System (CC7.NS.1, CC7.NS.1a, CC7.NS.1b, CC7.NS.1c, CC7.NS.1d, CC7.NS.2, CC7.NS.2a, CC7.NS.2b, CC7.NS.2c, CC7.NS.2d, CC7.NS.3)
 - Apply and extend previous understandings of operations with fractions to add, subtract, multiply, and divide rational numbers.
3. Expressions and Equations (CC7.EE.1, CC7.EE.2, CC7.EE.3, CC7.EE.4, CC7.EE.4a, CC7.EE.4b)
 - Use properties of operations to generate equivalent expressions.
 - Solve real-life and mathematical problems using numerical and algebraic expressions and equations.
4. Geometry (CC7.G.1, CC7.G.2, CC7.G.3, CC7.G.4, CC7.G.5, CC7.G.6)
 - Draw, construct, and describe geometrical figures and describe the relationships between them.
 - Solve real-life and mathematical problems involving angle measure, area, surface area, and volume.
5. Statistics and Probability (CC7.SP.1, CC7.SP.2, CC7.SP.3, CC7.SP.4, CC7.SP.5, CC7.SP.6, CC7.SP.7, CC7.SP.7a, CC7.SP.7b, CC7.SP.8, CC7.SP.8a, CC7.SP.8b)
 - Use random sampling to draw inferences about a population.
 - Draw informal comparative inferences about two populations.
 - Investigate chance processes and develop, use, and evaluate probability models.

c.