

Name of School: **Intermediate School**

Name of Course: **7th Grade Math**

Instructor Information

Name:
E-mail address:
School phone number:
Web page address:
Best times to be reached:

Course Description

The mathematical content in seventh grade includes numbers, geometry, measurement, statistics, probability, and algebra appropriate for middle grades. Our units develop a “big mathematical idea,” that is, an important cluster of related concepts, skills, procedures, and ways of thinking while integrating technology.

We have a standards-based program that engages, challenges, and prepares students for continued study and growth in mathematical skills and understandings, causing them to develop mathematical habits of mind and to understand and appreciate the role of mathematics in real world situations.

Iowa Core Curriculum Standards

Standards for Mathematical Practice

- Make sense of problems and persevere in solving them.
- Reason abstractly and quantitatively.
- Construct viable arguments and critique the reasoning of others.
- Model with mathematics
- Use appropriate tools strategically
- Attend to precision.
- Look for and make use of structure.

Expressions and Equations

- Use properties of operations to generate equivalent expression.
- Solve real life mathematical problems using numerical and algebraic expressions and equations.

The Number System

- Apply and extend previous understandings of operations with fractions to add, subtract, multiply and divide rational numbers.

Geometry

- 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.

Ratio and proportional Relationships

- Analyze proportional relationships and use them to solve real world and mathematical problems.

Statistics and Probability

- Use random sampling to draw inferences about a population.
- Investigate chance processes and develop, use, and evaluate probability models.

Course Outline/Calendar

First Quarter	> <i>Data Distributions</i> : Describing Variability and Comparing Groups > <i>Variables and Patterns</i> : Introducing Algebra > <i>Accentuate the Negative</i> : Positive and Negative Numbers
Second Quarter	> <i>Accentuate the Negative</i> continued > <i>Stretching and Shrinking</i> : Understanding Similarity
Third Quarter	> <i>Comparing and Scaling</i> : Ratio, Proportion, and Percent > <i>Moving Straight Ahead</i> : Linear Relationships > <i>What do you Expect?</i> : Probability and Expected Value
Fourth Quarter	> <i>What do you Expect?</i> continued > <i>Data Distributions</i> continued > <i>Filling and Wrapping</i> : Three Dimensional Measurement

Text/Other Required Materials/Resources

Text: *Connected Mathematics 2*, copyright 2006, Pearson Prentice Hall

Students are expected to bring all supplies to class everyday including notebook, loose leaf paper, pencil, and binder (textbook).

Instructional Procedures & Support

Teaching Strategies and Instructional Method(s): Direct instruction, cooperative groups, vocabulary strategies, discovery activities, guided practice, student note taking and journaling.
Academic Expectations of Students: Good attendance and punctuality are critical for success in this course. Students should expect to spend approximately 30 minutes each night completing assignments, reviewing notes, and reading text.

Major Course Assignments: Assignments will be given on a daily basis. Quizzes will be given throughout the unit. Tests will be given at the end of each unit. Several units will require a completed project or activity. District Assessments will be given at the end of each quarter
Homework Expectations: Homework assignments are expected to be turned in the day it is due.

Make-Up Work: If a student has an absence they should get all assignments, tests and quizzes done within four days of their return to school. Students who are absent more than one day should contact the school or instructor to get their make-up work before or after school.

Extra Help: Students can get extra. Please let your instructor know the time that you are available to come in if you need extra help.

Classroom Management Procedures

Students are expected to be in class on time daily and prepared with all required materials. The attendance policy of the building will be followed.

Assessment Plan

Students will receive a formal midterm and end of the quarter grade which will be sent home. Grades will be assessed in the following manner:

• Group Work/Class Work/Binders	20%
• Quizzes (Concept Check Up)	25%
• Tests/Projects	45%
• End of Term Assessment	10%

Grading System

Grades will be determined by the DCSD Grading Scale with the Power of I:

100-90	A
89-80	B
79-70	C
69-0	I (Incomplete)

