

# Twin Falls School District

## Course/Subject: Pre-Algebra

### Grade 8



Twin Falls, ID 83301

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#### **Course Description:**

This course is designed to prepare students for first year Algebra. This course is a critical bridge between elementary mathematics and Algebra I. To be successful in Algebra I, students should have a solid foundation of basic computational skills, probability, statistics, number sense, proportion, integers, and geometry.

#### **Required Text:**

Prentice Hall. Mathematics Course 3. 2008 Pearson Education Inc. publishing as Pearson Prentice Hall, Boston Massachusetts 0116

#### **Instructional Philosophy:**

Student will receive all necessary instruction, guided practice, and group activities during class time. Students should expect homework every day to reinforce the knowledge and skills introduced in the classroom. Homework is not accepted unless all work is clearly shown. Students are expected to bring all supplies to class every day. To further develop a community of learners, students will be expected to work and participate in a variety of situations.

#### **Power Standards:**

##### **Standard 1: Probability and Statistics**

Students collect, organize, display, interpret and analyze data.

Students determine the probability of simple events.

##### **Standard 2: Fractions, Decimals, and Percents**

Students compare and order rational numbers by converting between fractions, ratios, decimals, and percents.

##### **Standard 3: Rational Numbers**

Students add, subtract, multiply, and divide rational numbers.

Students use order of operations to simplify expressions.

##### **Standard 4: Geometry**

Students use the coordinate plane to plot points and graph lines and shapes.

Students identify two and three-dimensional geometric figures.

##### **Standard 5: Formula Usage**

Students identify and apply common formulas.

##### **Standard 6: Variables and Expressions**

Students identify and use variable representation to simplify, evaluate, and translate algebraic expressions.

##### **Standard 7: Integers**

Students add, subtract, multiply, and divide integers.

##### **Standard 8: Equations**

Students write, translate, and solve equations and proportions with variables on one side.

In all of the standards, students use problem-solving skills: they choose how to approach a problem, they explain their reasoning, and they check their results to determine if they are reasonable. Throughout, students investigate, describe, and identify patterns. Students should read text, data, tables, and graphs with comprehension and understanding. Their writing should be coherent and use correct mathematical vocabulary. Connecting mathematical concepts includes linking new ideas to related ideas learned previously and helping students to see mathematics as a unified body of knowledge whose concepts build upon each other. Students should connect their mathematical learning to appropriate real-world situations.

**Assessment and Grading Plan:**

Students will be assessed on a daily, quarterly, or yearly basis on the following items:

- Tests
- Quizzes
- Homework
- Class work
- Participation

**Grading Scale:**

90 - 100	A	Advanced
80 - 89	B	Proficient
70 - 79	C	Basic
60 - 69	D	
59 - below	F	
Incomplete -	I	

**Components of the Grade**

Tests	50%
Quizzes	30%
Homework/Class work	20%

**Policy for Re-Doing Work:**

Retakes for students scoring **below 80%** are available on all chapter tests when teacher criterion has been met. *The maximum retake score will be 80%.*

**Extra Help Resources:**

Contact your Math teacher for extra-help opportunities

**Go Online: PHSchool.com** (see front cover for web code)

Homework Video Tutor, vocabulary quizzes, lesson quizzes

**Apangea.com Username:** \_\_\_\_\_ **Password:** \_\_\_\_\_

Apangea Learning Math is an online, supplemental math instruction and tutoring program that will help raise student achievement in Idaho by providing students with focused instruction, rigorous math problems, access to live certified teachers and a motivation program with rewards for working on math problems. Apangea Learning works with the classroom teacher to tailor the online math instruction to the needs of the individual student. Students can access the program anywhere they get Internet access - whether at home, at school or in a library.