

6th Grade Mathematics
Course Description
Mr. Costales (teacher)

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Overview of the Subject

This course will prepare the 6th grade student for 7th grade mathematics. Students will focus on higher level thinking skills, the problem solving process, and learn to use new skills to analyze and solve mathematical equations. This course will give the 6th grade student the foundations necessary for a strong start in the next program.

Methods of Instruction

- - A/B partners, warm up, pressing questions, exit ticket, grouping(complex instruction), project based instruction, using manipulative, working on paper or on computer/calculator, real life applications, individual or group problem solving, and games, differentiated instruction (ELL and Sped), reflection notes

Student Performance Goals:

- Understand relationships among factors, multiples, divisors, and products
- Compare and order fractions
- Develop ways to model situations involving fractions, decimals and percents
- Understand some important properties of polygons
- Use angle ruler for making more accurate angle measurements
- Find patterns that help angle sums of polygons
- Use estimates and exact solutions to make decisions
- Understand area and relate to covering a figure
- Understand perimeter and relate perimeter to surrounding a figure
- Build on knowledge of operations on fraction and whole numbers
- Understand that probabilities are useful for predicting what will happen over a long run

Subject Matter Content

- Factors and Products (proper factors, prime and composite, multiples)
- Whole-number Patterns and Relationships (rectangles and factor pairs, even and odd numbers)
- Common Multiples and Factors
- Factorization (factor string, longest factor string, prime factorization)
- Fractions, Decimals, Percents
- Regular and Irregular Polygons; Special properties of Triangles and Quadrilaterals
- Area and Perimeter Relationships
- Addition, Subtraction, Multiplication, and Division of Fractions
- Addition, Subtraction, Multiplication, and Division of Decimals
- Experimental and Theoretical Probabilities
- Gather, organize, represent and analyze data

Textbooks: 6th Grade CMP2 – Prime Time, Bits and Pieces II and III, Shapes and Designs, Filling and Wrapping, How likely it Is, Data about Us

Other Resources: PIZZAZZ, Navigator, MESA, Internet, United Streaming

Grading

The student's grade will be determined by a percentage of points earned for that marking period.

Grades are based on:

Classroom work (daily problems) and Homework (packet or ACE in the book) – 20%
Do Now Sheet (warm-up, goal of the lesson, reflection, exit ticket and vocabulary) 20
Participation (A/B partner, class discussion, Table grade) – 20%
Projects, Quizzes and Tests – 30%
Behavior (Big Five) – 10%

Grading Scale:

A- 90-100 %
B- 81-89 %
C- 71-80%
D- 61-70%
E- Below 60%

Ways of Contacting the Teacher (Mr. Costales)

Before Class Starts – 8:00 AM

Any Time after 3:00 PM

Numbers to Call:

Direct phone line: 206-252-7720

School – 206- 252-7700

Email: rrcostales@seattleschools.org