

Teacher: Fields
Time:

The Course Organizer

Student:
Course Dates: 2011/2012

① THIS COURSE:

7th Grade Math

is about Thinking in new ways, using a variety of methods to solve math problems.

② COURSE QUESTIONS:

1. How can you find the sum of the interior angles of a polygon?
2. How do you represent and interpret changing relationships?
3. What is needed for shapes to be similar?
4. How can you use similarity and proportions to solve other problems?
5. What effect does the sign of the integer have on the operation?
6. How does enlarging a figure or solid affect the area and/or volume?
7. How are theoretical and experimental probabilities related?
8. How do different data sets affect your interpretation of the data?
9. What makes a number rational?
10. Why does the pythagorean theorem work?

③ COURSE STANDARDS:

<i>What?</i>	<i>How?</i>	<i>Value?</i>
CONTENT:		
Understanding Concepts	Test/Worksample	55%
	Quiz	15%
PROCESS:		
Performance-Practice & Study	Class-Homework Projects	15%
		15%
		100%

Notes:

COURSE MAP

This course:

7th Grade Math

Student:

includes

⑥ COMMUNITY PRINCIPLES

Safe
Respectful
Responsible
Teamwork

⑦ LEARNING RITUALS

Math Spirals	Content Enhancement	Lesson & Demonstration
Groupwork	Routines	
Independent Practice		

⑧ PERFORMANCE OPTIONS

Extended Time
Use of Technology
Study Groups
Test Corrections
Graded Note

④ CRITICAL CONCEPTS

tables	integers	types of average
graphs	order of operation	scientific not.
equations	volume	data analysis
similar	surface area	Pythagorean The.
proportion	exp. & theor.	irrational numbers
scale	probability	
polygons		

⑤ Learned in these UNITS

Shapes and Designs

Variables and Patterns

Stretching and Shrinking

Accentuate the Negative

Filling and Wrapping

What Do You Expect?

Data Distributions

average

Looking for Pythagoras

Samples and Populations