

# 6<sup>th</sup> Grade Math Principles of Algebra

Mr. Kochan

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# A little about me:

- I grew up in Michigan and lived there my whole life except:
  - When I served my country
  - When I moved to Arizona in 2013
- completed my undergraduate degree in Education at Saginaw Valley State University (2012)
- This will be my 4<sup>th</sup> year as an educator and my 2<sup>nd</sup> year teaching 6<sup>th</sup> grade math

# Curriculum

## Principles of Algebra

- Mathematical Practices
- Number sense
- Ratios, rates & percent
- Algebraic thinking
- Geometry
- Statistical thinking

Please visit the Kyrene Website for  
specific math objectives.

# Curriculum

## Compacted Class

- Mathematical Practices
- Number sense ~ (quick recap) fractions, factorization, decimals
- Ratios, rates & percent ~ proportional relationships
- Algebraic thinking ~ rational numbers, working with expressions and linear equations
- Geometry ~ scale drawings and informal geometric constructions, and working with 2d and 3d shapes to solve problems involving area, surface area, and volume
- Statistical thinking

Please visit the Kyrene Website for specific math objectives.

# 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

# Student Resources

## MATHia® Software Access

- Software companion to textbook
- One day per week during class. (Possible Homework)
- Customized lessons based on their needs

## Carnegie Learning Series, Course 1

- Consumable, which means kids can write in them!
- Tear pages out for homework; books kept at school.

# Homework

- Assigned every school day.
- Missed assignments need to be made up.

# Grading

- Assessments are 70% (mastery of standards)
- Practice is 30% (Classwork, MATHia & Homework)
- Check grades on Parent Vue each week.
- NO extra credit to improve grade.
  - Ability to retake tests exists
  - Students may request one-on-one time before school, after school, or at lunch



# Learning Goal Scale

Score	Learning Goal
4	I completely understand, I am able to explain it and teach it to others.
3	I completely understand.
2	I understand parts.
1	With help, I understand parts
0	I do not understand.