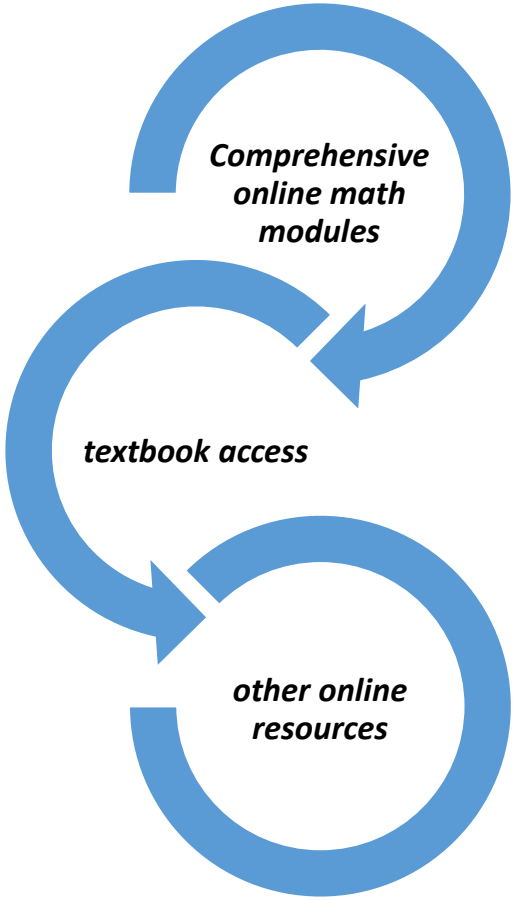
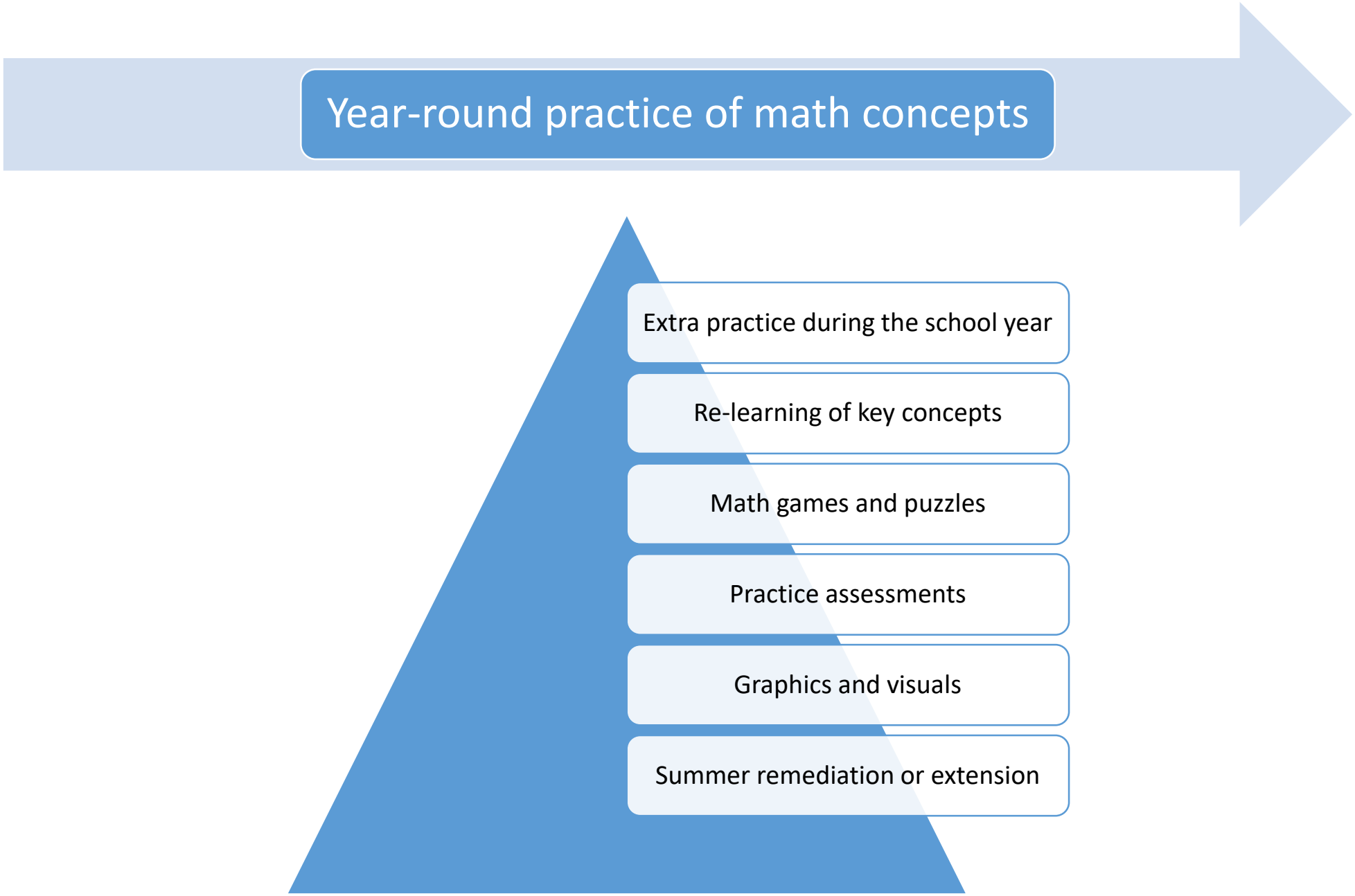
Math Resources for Parents and Students




Year-round practice of math concepts
Extra practice during the school year
Re-learning of key concepts
Math games and puzzles
Practice assessments
Graphics and visuals
Summer remediation or extension

To access resources, click on…

Courses: MS Math 6th Grade

Courses: MS Math 7th Grade

Courses: MS Math 8th Grade

DIRECT LINKS

- http://www.gavirtuallearning.org/Resources/SharedMSMath6.aspx
- http://www.gavirtuallearning.org/Resources/SharedMS7thMath.aspx
- http://www.gavirtuallearning.org/Resources/SharedMSMath8th.aspx

7th Grade Curriculum

OER MS Math 7th Grade

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Middle School Math 7

Operations with Rational Numbers

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Introduction

In 6th grade, students learned to represent signed numbers on a vertical and horizontal number line and to identify the opposite of a number. In grade 7, students will develop an understanding of operations with rational numbers. Building on prior knowledge, this module will explore addition and subtraction of rational numbers using a number line and using properties to solve problems with negative and positive fractions and decimals. This module will show students how to convert between decimals and fractions, and to justify the reasonableness of answers by using estimation. These concepts will lead to more in-depth studies of fractions as they are related to measurement, statistics, and probability.

Essential Questions

1. How can you represent operations on a number line?
2. How can you write equivalent expressions using properties?
3. How do you apply properties to solve rational numbers problems?
4. How can a negative symbol be written in a fraction?
5. How do you multiply and divide rational numbers?
6. How can you solve everyday problems involving the four operations with positive and negative numbers?

Key Terms

Additive inverse

What to Expect

In this module, you will be responsible for completing the following assignments:

- Practice Quiz - Properties and Integers
- Practice Quiz - Integer Operations_Fractions to Decimals
- Quiz - Properties_Integers_Fractions_to_Decimals
- Practice Quiz - Decimal Operations _Add or Subtract Fractions
- Practice Quiz - Multiplication and Division of Fractions and Mixed Numbers
- Quiz -Decimal and Fraction Operations
- Discussion - Integer Representations
- Project - Integers and Rational Numbers
- Test - Integers and Rational Numbers

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Listen to the page

Listen

Handouts

Integers and Rational Numbers Standards

National Educational Technology Standards

More Resources

Number Properties Game

Khan Academy Number Properties Video One

Khan Academy Number Properties Video Two

Regents Prep Number Properties Table

8th Grade Curriculum

VIRTUAL GEORGIA VIRTUAL LEARNING

PROGRAMS STUDENTS PARENTS EDUCATORS RESOURCES

Shared Content

Subject

- Language Arts
- Math
- Middle School
- Science
- Social Studies
- World Language
- CTAE/Electives
- Fine Arts
- Student/Teacher Resources

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Courses

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OER MS Math 8th Grade

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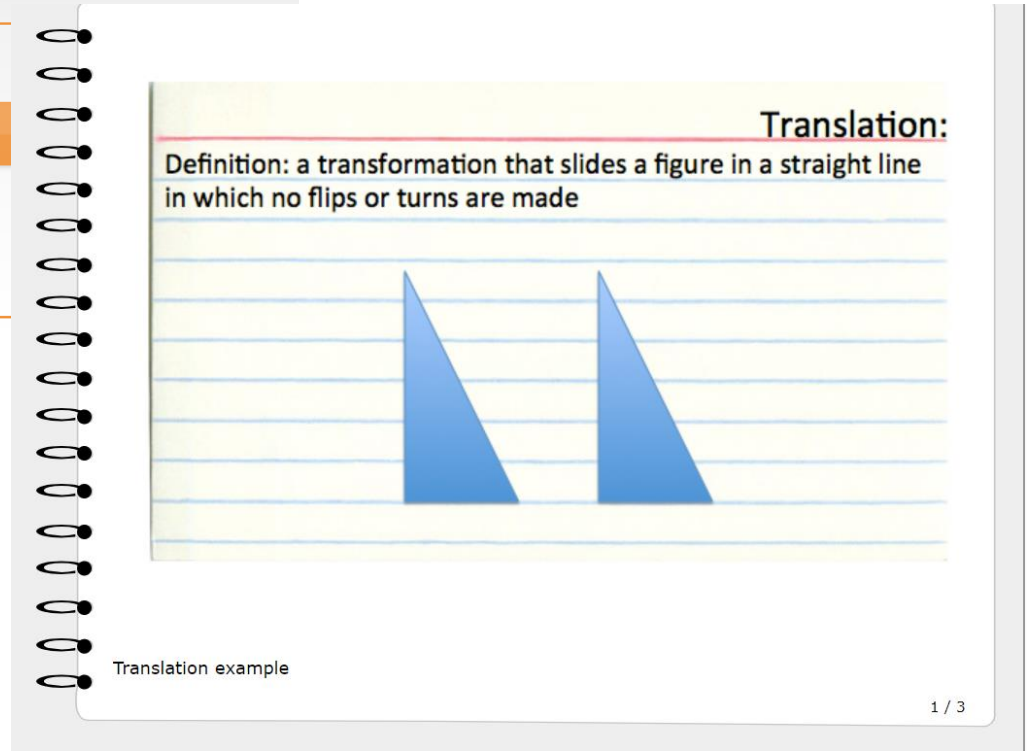
Linear Functions	View
Linear Models and Tables	View
Solving Systems of Equations	View
Show What We Know	View



ONLINE TEXTBOOK ACCESS:

1. In Google Chrome or similar browser, go to

connected.mcgraw-hill.com

2. Log in as a student by using the following:

Student

- Username: ccsd(student ID) Example: ccsd123456
- Password: cobbmath1 (the password is the same for everyone)
- Then open “eBook” and go to any page number in the book. You will see that at the bottom of the page there are “tutors” available to further explain the material, as well as worksheets to practice different skills. It is a great resource for any grade level.

OTHER ONLINE RESOURCES

- http://mccluremathresources.weebly.com/math-6-resources.html
- http://mccluremathresources.weebly.com/math-7-resources.html
- http://mccluremathresources.weebly.com/math-8-resources.html

Adding and Subtracting Integers:

- Video https://www.khanacademy.org/math/arithmetic/absolute-value/adding_subtracting_negatives/v/adding-subtracting-negative-numbers

- Practice https://www.khanacademy.org/math/cc-seventh-grade-math/cc-7th-negative-numbers-add-and-subtract/cc-7th-add-and-sub-integers/e/integer-addition-and-subtraction-2

- Games
- http://www.sheppardsoftware.com/mathgames/integers/FS_NumberLine_integer.htm
- http://www.sheppardsoftware.com/mathgames/integers/FS_Integer_addition.htm
- http://www.sheppardsoftware.com/mathgames/mathlines/mathlines_integer_1.htm
- http://www.sheppardsoftware.com/mathgames/mathlines/mathlines_integerMinus_1.htm
- http://www.sheppardsoftware.com/mathgames/integers/FS_NumberLine_int_minus.htm
- http://www.sheppardsoftware.com/mathgames/integers/FS_Integer_subtraction.htm

Multiplying and Dividing Integers:

- Video https://www.khanacademy.org/math/arithmetic/absolute-value/mult_div_negatives/v/multiplying-and-dividing-negative-numbers

- Practice https://www.khanacademy.org/math/cc-seventh-grade-math/cc-7th-negative-numbers-multiply-and-divide/cc-7th-mult-div-negatives/e/multiplying_and_dividing_negative_numbers

- Games:
- http://www.math-play.com/Integers-Jeopardy/Integers-Jeopardy.html
- http://www.sheppardsoftware.com/mathgames/integers/FS_Integer_multiplication.htm
- http://www.sheppardsoftware.com/mathgames/fruitshoot/FS_Mixed_Integers.htm

- http://www.mathplayground.com/number_bonds_integers.html

One Step Equations:

- Games:
- **Equations 1**
- **Equations 2**
- **Equations 3**
- **Equations 4**

Solving Two Step Equations:

- Video https://www.khanacademy.org/math/cc-seventh-grade-math/cc-7th-variables-expressions/cc-7th-2-step-equations/v/why-we-do-the-same-thing-to-both-sides-two-step-equations

- Video https://www.khanacademy.org/math/cc-seventh-grade-math/cc-7th-variables-expressions/cc-7th-2-step-equations/v/solving-equations-1

- Practice https://www.khanacademy.org/math/cc-seventh-grade-math/cc-7th-variables-expressions/cc-7th-2-step-equations/e/linear_equations_2

Games

- **Equations 5**
- http://www.math-play.com/Two-Step-Equations-Game.html
- http://www.math-play.com/equation-games.html

Plotting on a Coordinate Plane:

- Video https://www.khanacademy.org/math/cc-sixth-grade-math/cc-6th-negative-number-topic/cc-6th-coordinate-plane/v/points-on-the-coordinate-plane

- Practice https://www.khanacademy.org/math/cc-sixth-grade-math/cc-6th-negative-number-topic/cc-6th-coordinate-plane/e/identifying_points_1

- Games:
- http://www.mathplayground.com/spaceboyrescue.html
- http://www.mathplayground.com/ASB_OrbitIntegers.html
- http://www.math-play.com/Coordinate-Plane-Jeopardy/Coordinate-Plane-Jeopardy.html