

King Philip Middle School Math Department

Hello Students and Parents!

The Math Department wanted to give you a list of recommended math topics and some websites to keep your math skills up-to-date! Watching a video from Khan Academy and doing some practice problems every 'school' day is a great way to keep your math skills sharp. We've also gathered a list of relevant 8th grade math concepts.

Middle School Online Resources:

CatchUp Math: This program has the student take a pretest to assess their areas of strength and weakness. The results of the assessment allows the program to adapt the review to each individual student's needs.

www.catchupmath.com

Username: KPMS861

Password: quizme

Students sign in from here.

Khan Academy: This program has video examples and explanations. Students can practice with additional problems. Suggested topics can be found below by grade and level.

Grade 8 Math:

Khan Academy

<https://www.khanacademy.org/math>

Go to "8th Grade"

List of topics to consider:

Numbers & Operations

Square Roots & Cube Roots
Irrational Numbers
Exponents Properties Introduction
Negative exponents
Exponent Properties (integer exponents)

Solving Equations with One Unknown

Equation with Variables on Both Sides
Equations with parentheses

Linear Equations and Functions

Slope
Introduction to slope-intercept form
Graphing Slope-intercept form

Algebra 1:

<https://www.khanacademy.org/math>

Go to “Algebra Basics”

List of topics to consider:

Linear Equations and Inequalities

Multi-step equations
Multi-step inequalities

Systems of Equations

Systems of equations introduction
Elimination method for systems of equations
Substitution method for systems of equations

Expression with Exponents

Exponents properties introduction
Negative exponents
Exponent properties (integer exponents)

Algebra Extended:

<https://www.khanacademy.org/math>

Go to “Algebra 1”

List of topics to consider:

Exponents and Radicals

Exponents Properties Review

Radicals

Simplifying square roots

Quadratic Functions and Equations

Introduction to Parabolas

Solving by taking square roots

The quadratic formula

Quadratic Standard Form