Khan Academy for Middle School Math Teachers

A Guide to Using Khan Academy in Your Math Classroom to Support Common Core Math

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Introduction

The Power of Khan Academy

Khan Academy is one of the most valuable tools that you can utilize in your math classroom. Khan Academy (KA) can increase student learning by tutoring your students with videos, giving them extra practice problems, and showing them step-by-step how to solve these given problems.

This free online program is aligned with the Common Core standards. Khan also tracks student performance. It can inform math teacher instruction and give teachers insight into the struggles and successes of their students. Khan Academy is my number one recommendation to parents when they ask for additional help or resources for their struggling student.

Minimizing Teacher Overwhelm

The Khan Academy website can be overwhelming for a math teacher trying to understand how this multi-faceted program can be used to support learning in her classroom. The purpose of this special report is to share with you the insights that I have gained using Khan Academy in my classroom over the past two school years.

While this report is also fairly detailed and contains numerous links to specific Khan Academy procedures, it is not necessary to learn all of the nuances of Khan Academy in order to use this online program successfully. With just a few basics under your belt you can have your students up and learning on Khan Academy. Whatever else you need to know can be learned as you go.

I have learned by experience ways to effectively use Khan Academy in my classroom. I have also experimented with ways of using KA that did not work very well. I will share both the successful and not so successful ideas for implementing Khan Academy in the math classroom. Of course, you can discover all of this on your own, but I believe that my experiences and research will save you time and give you new insights and ideas to use in your middle school math classroom.

An Evergreen Guide

What I will not do in this report is explain how to use all of the technical parts of the website. These are revised and changed as time goes by. My goal is to write an evergreen guide that will be just as useful for teachers in five or ten years as it is today. I will, however, provide links to the most important parts of the Khan Academy website for you to access as you use KA in your math classes.

My intention is also to provide a concise but thorough guide that will shorten your learning curve and that you can refer back to as you use KA this year and in years to come. Before we jump in
to how to use Khan Academy in the middle school math classroom, let’s take a quick look at the
how KA began.

**The Birth of Khan Academy**

In 2004 Salman Khan began tutoring his cousin Nadia in mathematics. Soon others wanted to be
tutored by Khan and he decided that the most efficient way for him to help them was by
establishing a YouTube channel where he could post videos of his teaching.

Today that channel has evolved into Khan Academy, which has helped millions of students from
around the world to learn mathematics as well as many other subjects. The Khan Academy
mission is “to provide a free, world-class education for anyone, anywhere.” To get an overview
of Khan Academy visit the Khan Academy “About” page.

**Three Core Pillars that Support Khan Academy**

There are a number of reasons why I love using Khan Academy with my students. First of all,
KA is interactive. Secondly, it is personalized or individualized. Thirdly, Khan Academy is
mastery-based. Let’s take a quick look at each of these aspects of the program.

**Khan Academy is Interactive**

First of all, Khan Academy includes interactive challenges, skill practice, and assessments. If
students are ever stuck or need help, Khan provides easily accessible hints and videos to help
students to understand the mathematics. As students complete problems on KA they receive
immediate feedback to let them know whether they are correctly solving the given problems.

**Khan Academy Provides an Individualized Program**

Secondly, students can monitor their own progress and learn at their own pace. Khan Academy
guides students through several color-coded levels before they are given credit for mastering
each math concept. Gray shows that students have not started a concept. Lighter shades of blue
are assigned to a concept when student are at the Practice level, Level 1, and Level 2. Finally,
dark blue indicates mastery of a concept. Students are required to get a number of consecutive
problems correct before they are promoted to the next level of a concept.

**Khan Academy is Mastery-Based**

Thirdly, Khan Academy is mastery-based. This means that students must master skills in order
to progress through, and ultimately complete, one of Khan’s math missions. They are typically
required to answer 3 to 5 problems in a row correctly in order to advance to the next level on a particular skill. If a problem is missed, or hints need to be consulted, the student is required to begin again in obtaining the consecutive correct answers.

Quick Tip: Consulting a math video for help does not require students to start their sequence of correct answers over. However, clicking on the hints (which ultimately give students the correct answer) will require students to start their correct answer sequence over again before moving to the next level.

Khan Academy then revisits these skills through Mastery Challenges and moves students through 5 levels on each skill before it is considered mastered.

**Khan Academy and the Common Core Standards**

Khan Academy has made an effort to support the strong standards of the Common Core. To hear Salman Khan’s view of Khan Academy and the Common Core take a look at this 7-minute video. The video explains how the Common Core, when properly implemented, is really trying to measure deep conceptual understanding of mathematics. Khan Academy likes the Common Core for this reason and is committed to creating mathematical activities that help students to arrive at this deeper level of understanding. View a summary of Khan Academy’s approach to the Common Core.

You can also browse the Khan Academy math skills by Common Core standard. There are over 50,000 questions that provide complete coverage of the Common Core standards.

**How to Use Khan Academy in Your Math Classroom**

Now that we have seen that Khan Academy does support our work as math teachers with the Common Core standards, let’s look at the practicalities involved in using Khan in your classroom. Here are some tips, hints, and guidelines that will quickly get you up and running with Khan Academy. As always, you may want to modify my suggestions to fit your personality and classroom style.
Setting Up Your Own Account and Adding Classes

If you have not set up your own account on Khan Academy, it is very simple to do. Just visit KhanAcademy.org and follow the steps to sign up for a free account.

Quick Tip: If you already have a personal Khan Academy account you may want to set up a separate teacher account where you can list your name more formally (as Mr. Tully, for example) and which will also connect to your teacher email address rather than your personal email.

Parent and Child Accounts

I have parents and students set up their own accounts at home. First, parents set up their own account (by following the instructions at KhanAcademy.org) and then they can add accounts for their children. Here is a link to the full instructions for setting up a child account. It is recommended that children under 13 use a child account that their parents are able to monitor.

A few of the key differences between a child account and a parent account are:

1. A child cannot enter certain information, including their full name, in their profile.
2. A child cannot make their profile public.
3. A child cannot post messages to public discussion forums.

Find more detail about the differences between a parent (adult) account and a child account on Khan Academy.

Quick Tip: If you have your own children at home you can add them to your Khan Academy account by setting up a child account for them in the same way that your students’ parents will set up their account.
After parents and students have created a child or adult account they will need to add you, their math teacher, as a coach. This is easily accomplished by entering a code, which you will provide to your students, into their account. More about class codes is coming up soon.

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**Quick Tip:** Have students create a user name that easily identifies them to you. I instruct my students to use their first initial and last name and to add a number to it if their name is already taken. This saves you from cross-referencing every student to figure out who “ImSoCool83” actually is.

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Losing passwords has been a problem that I have faced with my students throughout the two years that I have used Khan Academy in the classroom. Teachers DO NOT have access to student passwords. Encourage your students to write their password down so that they do not get locked out of Khan Academy. Parents are able to reset a password in a child account. In an adult account an email can be sent by KA to allow a password reset provided that an email address was added to that account. View more detail about password resets.

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**Quick Tip:** Teachers do not have access to student passwords. Encourage students to write their password down so that they do not get locked out of Khan Academy.

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**Setting Up Your Classes**

Anyone who has a Khan Academy account can be a coach, including teachers. You can easily set up classes and give students a code to join one of your classes. Check out the teachers and coaches help page on Khan Academy. It includes links to articles and how-to guides that will walk you through the details of setting up your math classes and answer any questions that you might have.

Each year I set up each of my six math classes on Khan Academy. I name the classes by period and class name. For instance, my first class of the day may be named, “Period 1 – Math 6.” You want to give your classes names that will make it very easy for you to identify which class you are working with.
Choosing a Math Mission for Your Classes

When you add a class you will be asked to select a mission for your class. Just click on the grade level mission that you would like to add. For instance, if you teach 6th grade just click on the Grade 6 icon which says “6th Grade (U.S.)” below it. When students enter the class code that you give them they will automatically be assigned to this mission.

Each grade level math mission focuses specifically on the Common Core grade level math standards. Each mission also includes the important prerequisite standards (called Mission Foundations) from previous grade levels that our students will need to excel in math.

Make sure students verify that they are actually working in the correct mission. The mission is clearly labeled at the top left hand corner of the page. I have had students work for extended periods of time in the wrong mission and thus credit for their work did not show up in my records. “The World of Math” is a mission that includes mathematics from many different levels on KA and several times I have had students work in this mission by mistake.

**Quick Tip:** Explain to your students, or show them on the screen, how to verify that they are working on the correct mission. The mission title can be found on the top left-hand corner of the mission page.

Below is a screenshot of the 6th Grade Math Mission.
Adding Students to Your Classes

After your Khan Academy classes have been set up you need to get your students into the correct classes. Khan provides a number of ways to add students to your classes. You can follow the link to see all of the possibilities. My strong recommendation is to provide students with a handout that has their class period and class code on it. This way students can add themselves to your class and save you time and energy. (The class code is generated as you set up each class.)

Students take their code, visit the “Coaches” tab in their profile and simply enter the code in the box that says “Add a coach.” That’s it! Students are now a part of your class. You will be able to monitor their time spent, energy points (more about that later), and number of skills mastered.

Student Assignments on Khan Academy

If I am teaching 6th Grade Math then I always assign my students the 6th Grade Math Mission. If I am teaching 7th grade I would assign the 7th Grade Math Mission. That seems rather obvious but once a student has been correctly placed into a math mission what kind of regular assignments should you assign as a math teacher? There are a few different ways to go about creating assignments on Khan.

1) Assignments Based on Skills Mastered

First of all, you can just assign a number of mastered skills (indicated by a dark blue square) that you expect to be completed by a certain date. This is the method that I have chosen as I have worked with Khan Academy.

For example, with my 6th grade advanced math classes I simply took Khan’s 6th Grade Math Mission and divided it up into 3 or 4 grading periods. So students might be assigned 28 mastered skills to be completed by a given date. I counted this assignment as a quiz grade. Students who went beyond the assigned number could earn extra credit and students that did not reach the goal would be graded accordingly. Students can easily view the number of skills mastered by looking at the top left side of their learning dashboard.

It is often helpful to teach students how to search Khan Academy for skills that align with what they are currently learning in class. This reinforces your teaching, can lead to higher scores on assessments, and avoids the frustration that students sometimes feel when they start practicing a skill that has not yet been taught in class. We will come back to the best ways to “cherry-pick” skills a little later.
2) Assignments Based on Energy Points

Energy Points are given by Khan Academy as a way to measure the effort of students. Some students may be putting in their time on KA but because they are having difficulty mastering some of the concepts, their mastered skills level may remain low. Energy Points allow you, as the teacher, to see how much effort students are putting into Khan Academy. Points are given for watching instructional videos, working practice problems, and completing tasks. Be careful. Students can find ways to “game the system” if you rely solely on Energy Points to evaluate them. I recommend referring to Energy Points to help you assess special situations. Here is a more thorough explanation of Energy Points.

3) Assignments Based on Time Spent

You might also choose to have students keep a Khan Academy Log and record their time spent on KA. Many students have kept reading logs before and so a KA Log could be used to measure their activity. Khan Academy does also keep track of the time spent by students on KA and this measure can be used to verify student record keeping if needed.

We all know that the fact that Khan is open on a student computer does not mean that students are actively engaged. In my experience students have reported amounts of time that were significantly different from the total calculated by KA. Therefore, I don’t rely on time spent when evaluating student work on Khan. If you would like, you can see how Khan Academy actually calculates student time.

My Preferred Method of Assigning Work on Khan

Personally, I like to give my Khan Academy assignments based on mastered skills and then to use Energy Points and Time Spent to validate student results or claims of technical glitches (which do sometimes happen). If a student is really struggling with KA you may want to give Energy Points or Time Spent a little more weight as you consider your assessment score.

Students Should Learn How to Cherry-Pick

As mentioned earlier, when students are working in Khan Academy they can either practice the skills presented by Khan or cherry-pick the skills that are easier, have already been presented in class, or are currently being studied in class. Cherry-picking will lower student frustration levels and allow students to approach the skills that they are more confident with first.

There are a few ways that students can easily select the type of math skills that they want to work on. First, students can use the search bar at the top of their math mission to find specific subjects, skills, and videos that they are looking for. Some skills can be found across multiple grade levels. Students need to be careful to select only the search results that are included in the
grade level mission that they are working on. The mission that each skill is a part of is included in the search results.

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**Quick Tip:** When students search for a particular math topic or skill they need to make sure that they practice skills that are included in their assigned grade level mission on Khan Academy. Otherwise they will do work that does not show up in their assigned mission results.

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A second way that students can cherry-pick specific math skills is by clicking on the link that says “Show all skills” on their mission dashboard. This link is located beneath their mission progress. After clicking this link they will see a math skill breakdown by topic. By moving their cursor over each box they can see the title of that skill and a sample problem in a pop-up box.

Students can easily select skills that they have not yet mastered by clicking on a box that is not yet dark blue. The clicked skill will then be added to the skills list on the right of the page and be ready for a student to practice.

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**The Student Experience of Khan Academy**

Now that you know how to set up an account, set up your classes, assign a grade level mission, and create assignments, what does the student experience of Khan Academy look like? Before we go into detail regarding the student experience this quick video shows how students learn math on Khan Academy. I suggest watching it and also showing it to your students.

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**Mission Warm-Up**

Students should already have been placed in a grade level mission when they entered your class code. Before they start working on their math mission they should be given a short “Mission Warm-Up,” which is really nothing more than a short pre-test of 5 or 6 questions. The purpose of this warm-up is to unlock the mission dashboard and give Khan Academy the information it needs to start students working in the correct place.
Practicing Skills

Khan Academy will automatically select a starter group of skills for each student to work on. As discussed in the last section, students can also select their own skills to work on if they would like. As students answer problems correctly they are given energy points which eventually lead to new badges being earned and new avatars for their account being unlocked.

In order to move to the next level of mastery students need to correctly answer either 3 or 5 consecutive problems correctly. For example, if there are five problems and a student answers the fourth problem incorrectly, he will have to correctly answer five more problems in a row to advance to the next level.

Understanding the Mastery Levels on Khan Academy

Students start out by practicing skills. When they have successfully practiced a skill they are able to “level up” by taking “Mastery Challenges” to strengthen skills that they have already practiced. Mastery Challenges can be found at the top right of the mission dashboard. If no Mastery Challenges are visible then students must practice more skills before Mastery Challenges will show up. Here is a chart that explains the meaning of the different mastery levels.

Quick Tip: At times Khan users will see a timer that shows students must wait up to 16 hours before advancing to the next level on a skill. This does not mean that students cannot practice other skills. It just means that students cannot progress through all levels of one skill at one time. In Khan Academy mastery of a subject is shown over the course of time.

Students progress from the Practiced Level (light blue) to Level One (slightly darker blue) to Level Two (still darker blue) and finally to Mastered (dark blue). Students can only advance to the next level in a skill by completing Mastery Challenges. See how Khan Academy measures a student’s math knowledge.
Where Did My Mastered Skills Go?

Trustworthy students have reported to me that they lost credit for some of their mastered skills due to technical glitches or problems with the KA website. In cases like this I will refer to the Energy Points and the Time Spent numbers provided by Khan Academy to see if the student has accumulated Energy Points and Time Spent in line with others that have a similar amount of mastered skills. If a student tells me that he has mastered 36 skills and I only see a few hundred Energy Points or an hour or two of time spent then I would definitely question his assertion.

Often students do not realize that they can actually lose credit for one or more mastered skills if Khan Academy includes them in a Mastery Challenge and a student misses multiple review questions on the same skill. Skills that have been “mastered” should be able to be completed successfully by students even after they have been tagged as mastered. If students forget how to perform a previously mastered math skill, KA will end up removing the mastery tag on that skill and will give it to the students again.

**Quick Tip:** Students sometimes say that they have lost credit for skills on Khan Academy due to technical glitches. Verify the reasonableness of their claim by checking Energy Points and Time Spent. Students can lose credit for “mastered” skills if they miss similar problems again later.

**Number of Skills Mastered vs. Percentage of Skills Mastered**

If you choose to assign Khan Academy work based on a certain number of skills to be completed you need to explain to students the difference between number of skills mastered and percentage of skills mastered. Students were initially confused about the difference between these two numbers until it was explained to them.

In the top left hand corner of the mission dashboard there is a circle that shows mission progress. There is a percentage inside of the circle. My current percentage on the 6th Grade Math Mission is 79%. However, if you were to look at the number to the right of the dark blue square it shows 98 skills have been mastered. So I have completed 79% of the 6th Grade Math Mission but I have 98 skills mastered. Since I always give assignments based on number of skills mastered, I am not concerned with the percentage mastered.
Note: Khan Academy may add new skills to a mission and this provides another way that the percent completion can go down. I had finished the 6th Grade Math Mission and my percentage completion was at 100%. Then, after Khan added a number of new skills, my percentage completion dipped all the way down to 79%. As KA finishes each math mission this will be less likely to cause dramatic changes in percent completion. Remember, if you are giving students assignments based on skills mastered then the percent completion is really irrelevant.

Where Do Students Work on Khan Academy?

Most of the time students work on Khan Academy at home but there are opportunities for students to work on KA at school as well. Let’s take a closer look at student options.

Khan Academy at Home

A vast majority of the time that my students spend on Khan Academy takes place at home. The assignments that I give require students to complete from 2-4 skills per week. Even though our school is on a semester system with 6 total grading periods, I have always made my Khan Academy assignments due quarterly.

Students who procrastinate (of course none of my students ever do this!) end up trying to do hours of work at the end of a quarter while many other students either work ahead or spend about 30-45 minutes a week working on their Khan mastery goal.

Most of my students have online access at home but there are still a few who do not. I encourage these students to try to use school computers before or after school, the public library, or a friend’s computer if possible. If I can verify that this is a true hardship for a student I will take this into consideration when I evaluate her progress. I do at least want to see each student make the effort to set up an account and do some of the work. Last year I probably only had 3 or 4 students with access problems out of 6 math classes.
Khan Academy at School

There are several ways that students at my school are able to work in Khan Academy during school hours. Most commonly, students who finish an assignment early are able to access one of my four classroom computers. Last year was the first time I had ever had student computers in the classroom and they were used on a regular basis.

Our school also has Chromebook carts where each student is able to check out their own device for a class period. One of our teachers used the Chromebooks for Khan Academy days every once in a while. There is an iPad app available which now includes the entire library of Khan Academy. Students are also able to gain online access to work on Khan Academy missions at our after school homework club.

Coaching in Khan Academy

As a teacher using Khan Academy, you are considered a coach for your students. As a coach you can assign a grade level math mission, monitor student progress, and make recommendations for skills to be practiced by individual students.

Monitoring student progress means that you can view student progress records to see how many skills they have mastered, how many Energy Points they have accumulated and how much time has been spent working on their Khan math mission. You can also see any skills that students have been struggling with. These skills will be marked in red. Here is a quick explanation of how to view and interpret student progress.

When you make a recommendation for one or more students you are suggesting a skill or topic for the students to work on. Students will then see this skill at the top of their mission dashboard. Learn more about making recommendations for students, what students will see on their Khan Academy mission dashboard, and how to check on your recommendations.

Students do have the ability to remove recommendations. Should a student remove a recommendation he will receive a message that his coach will be notified. The coach then has the option to recommend this skill again. The ability for a student to remove a recommendation could be beneficial if older skills are still listed and the student wants to focus on the currently recommended skills. Find out more about removing recommendations.

Even after two years of using Khan Academy in the classroom I am still learning new things about Khan and the program itself is continuously being updated and improved. See the Coach Resources for K-12 math for more information about coaching in Khan Academy.

Student Hints for Khan Academy Success

After talking with my students, here are a few Khan hints that can solve potential problems:
1. Make sure that students are working in their own account, not their parent’s account. Many students, younger than 13, had child accounts created for them by their parents as Khan recommends. However, some of them started to do their work in the parent account rather than their student account. This also meant that I could not see their progress since their parent is not a member of my class on Khan.

2. Some parents mistakenly joined my class for coaching (which is obviously not necessary). You can just delete them from your class.

3. If a student is stuck on a particular problem on a Mastery Challenge he will not be able to proceed until he gets the correct answer. Since many of these problems are not multiple choice this can stop the student in his tracks. The student can watch the video for help. As a last resort the student can read the problem hints which will eventually give him the answer. The student who looks at the hints will not receive credit for answering that problem correctly.

4. On some problems there is an Acceptable Formats link near the answer box that will help students to understand how to represent fractional answers, mixed numbers, exponents, multiplication, and so on.

5. There is a scratchpad available to be used by students on some problems. Students may choose to use this or they may prefer just solving their problems using traditional paper and pencil. I may be “old-school” but I still prefer the latter.

6. Procrastination is a problem for some students. If you assign a quarterly goal, for instance, give students regular updates as to what their approximate progress should be at any given time. I left an approximate progress goal on my homework board so that my students could see if they were behind or not. It was my hope that students would not leave a 9-week assignment until the last few days. I also wanted students to realize that if they worked a little bit each week they could break down the assignment into easily manageable chunks.

Teacher Hints for Khan Academy Success

Here are a few hints to help teachers as they use Khan Academy in the classroom:

1. As mentioned earlier, instruct students on how you would like them to set up usernames when they open a Khan Academy account. I have students use the first initial of their first name and then their last name. For example, my Khan username would be “mtully.” If their username is already taken by someone else in the world, I have them add another letter or two to their first name or add a number to their last name. The idea is that you want to be able to recognize your students by their username instead of having to continually cross-reference a list to find out who “ImSoCool83” or “ILoveSkiing” might be.

2. Do not wait until you think you understand everything about Khan Academy before you get started. This special report will give you a head start in learning to use Khan. However, you just need to jump in, perhaps by choosing one class to work with on Khan,
and learn from your experiences. Our students are often more tech savvy than we are and they can help us learn and show us any issues that we might need to address.

3. Use Khan Academy yourself. I can’t overemphasize this point. Since I teach 6th and 7th grade math I chose both of those missions, added them to my Learning Home, and got to work. By working on the same math missions that you have assigned your students you will be better able to understand and answer their questions.

4. Don’t overdo it with your Khan Academy assignments. I surveyed a number of parents about their opinions of Khan Academy and most parents liked it and the help that it could give to their kids. However, some considered it another thing that had to be done among all of the other activities that middle school students are involved in. I plan on making my own Khan Academy assignments a little less time-consuming in the future.

The Khan Academy Help Center

If you have any other questions that have not been answered in this special report, or if Khan Academy modifies any of its program, go to the Help Center for more information. The screenshot below shows the organizational structure of the Help Center.

The Mission of Khan Academy

Khan Academy says, “Our mission is to provide a free, world-class education for anyone, anywhere.” Khan has been used by millions of students who have completed billions of problems from locations all around our world. As middle school math teachers, Khan Academy
can help us equip our students to perform better in the classroom and to independently find math help at home.

The Popularity of Khan Academy

The popularity of Khan Academy is due to a number of factors. First, and most obvious, it is free. Using Khan is like having free access to a math tutor 24/7. The program is available to anyone with an internet connection at any time.

Secondly, Khan Academy’s learning modules are top-notch and the website program is designed to help students learn independently. As our students complete math skills, they have the opportunity to learn at their own pace in an individualized program. They can find help in the form of videos and text hints. Students also receive immediate feedback and Khan progresses them through a series of levels until they reach mastery in each math skill.

One of the greatest benefits of Khan Academy is that students can take the account that I have helped them set up in my middle school math class and use it all the way through high school (and beyond) to learn in a variety of different subjects. This KA tool can become a valuable part of each student’s educational process.

My Personal Math Teaching Trifecta

It has been said that repetition is the mother of all learning. As a long-time teacher of mathematics, I believe that presenting students with repeated exposures to the key math concepts will help them to internalize and retain that learning.

It has also been said, “Amateurs practice until they get it right. Professionals practice until they can’t get it wrong.” I want my students to be well-practiced in the key grade level math concepts so that they are strong enough to use a math skill fluently to solve problems.

To that end I have developed my own “math teaching trifecta” in order to efficiently present students with numerous opportunities to practice each key math concept. My trifecta consists of Khan Academy, my grade level math Common Core Warm-Up Programs, and my regular teaching content.

While this special report has focused solely on Khan Academy, I start most of my math classes with 5 problems from one of my grade level Common Core Warm-Up Programs. These problems introduce new concepts and review previous learning. From my experience, starting my class with these warm-ups has greatly increased student learning due to the spiral review structure that maximizes repetition of key math concepts throughout the year.
For a full description of my 5th through 8th Grade Math Common Core Warm-Up programs, visit one of the links below. You will be able to read my program details and see sample problems from each grade level.

- 5th Grade Math Common Core Warm-Up Program
- 6th Grade Math Common Core Warm-Up Program
- 7th Grade Math Common Core Warm-Up Program
- 8th Grade Math Common Core Warm-Up Program

Combining Khan Academy, my Common Core Math Warm-Up Programs, and my regular curriculum gives students the opportunity for multiple exposures to the key math concepts at school and at home. This maximized repetition helps students effectively learn math and gives them the foundational skills they need to solve mathematical problems.

Here’s to You!

It is my hope that this Khan Academy Special Report will shorten your learning curve and help you to implement this powerful tool in your math classroom.

As always I wish you, my fellow middle school math teacher, inspiration and motivation to be the best math teacher that you can be.

Here’s to your success and to an exciting year teaching kids math!

Mark
DigitalLesson.com Resources for Middle School Math

Here are the main math eBooks available at DigitalLesson.com. Please follow the links for more information. Join our free newsletter for resources and ideas for the middle school math teacher.

**5th Grade Math Common Core Warm-Up Program**

A set of 120 daily warm-ups designed to support and help implement the Common Core Math Standards.

**6th Grade Math Common Core Warm-Up Program**

A set of 120 daily warm-ups designed to support and help implement the Common Core Math Standards.

**7th Grade Math Common Core Warm-Up Program**

A set of 120 daily warm-ups designed to support and help implement the Common Core Math Standards.

**8th Grade Math Common Core Warm-Up Program**

A set of 120 daily warm-ups designed to support and help implement the Common Core Math Standards.

**Marvelous Middle School Math: The Complete Collection of Lessons, Projects, and Games**


**Speed Skills Challenge Foundational Fluency Program**

Build Mathematical Fluency and Automaticity into Your Students That Will be Foundational to Their Success in Middle School Math. Includes 16 foundational skill modules for middle school math.