



# How-to guide: in-class practice

Classroom strategy and implementation

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# Introduction to in-class practice



## Welcome teachers!

So you're trying to figure out how to use Khan Academy in your classroom for lesson-aligned practice? You're in just the right place! This guide lays out some ideas to get you started.

We interviewed current and former teachers to find out exactly how they use Khan Academy in their classrooms for guided and independent practice. In the pages that follow, your peers share concrete tips on using Khan Academy during class time to help differentiate, develop insights into student understanding, and free up extra time for one-on-one support.

Consider the suggestions in this guide as a starting point. They'll make it easy for you to get Khan Academy up and running in your class. With some experimentation, you can adapt the strategies and techniques to fit your own teaching style and the needs of each of your students and classes.

Some things to keep in mind when deciding what works best for you and your class:

- **Content availability:** Khan Academy has thousands of online resources on a broad spectrum of topics. Before deciding how you might use Khan Academy for in-class practice, take a spin around [khanacademy.org](https://www.khanacademy.org) to see which of our resources match your needs.
- **Device availability:** whether students have access daily or weekly, whether they share devices or use them independently, there are effective ways to add Khan Academy resources to your routine.

## Let's explore using Khan Academy for in-class practice!

# Incorporating Khan Academy into your in-class-practice routine

## When should I use Khan Academy for in-class practice?

Many teachers find it effective to use Khan Academy during class for 15 to 30 minutes several times each week.

## What content should I assign?

Assigning a variety of Khan Academy articles, videos, and exercises that align with your daily lesson plans is a good way to get started.

## How should I schedule in-class assignments?

How you schedule in-class practice with Khan Academy will depend a lot on your class's individual needs and your teaching style. One approach is to assign work with a due date several days later and allow students time during class to complete the work. Many teachers find it easiest to create and save assignments before class and then post them when students arrive. That way you're prepared, but students can't start work until class begins.

### Assignments list

ASSIGNMENT NAME	DUE DATE & TIME	ASSIGNED ON
<b>The Neolithic Revolution</b> Article	June 16th, 3:00 PM	June 16th
<b>Jade Cong</b> Video	June 16th, 4:00 PM	June 16th
<b>Shapes on the coordinate plane</b> Exercise	June 16th, 5:00 PM	June 16th

## Example teacher routine

As you become more familiar with Khan Academy's resources, you'll develop a routine that fits your specific needs. But in the beginning, it can be helpful to know how other teachers have used our materials.

### Before the lesson

Spend five to ten minutes browsing content and assigning resources and exercises connected to the concepts you'll be covering.

### During the lesson

After introducing any new concepts included in the lesson, have students practice using related Khan Academy exercises for about 20 minutes. Have students who demonstrate understanding complete a second recommended exercise. Consider asking students who get stuck on the first exercise to view hints and watch a video to review the concept.

## Content tab

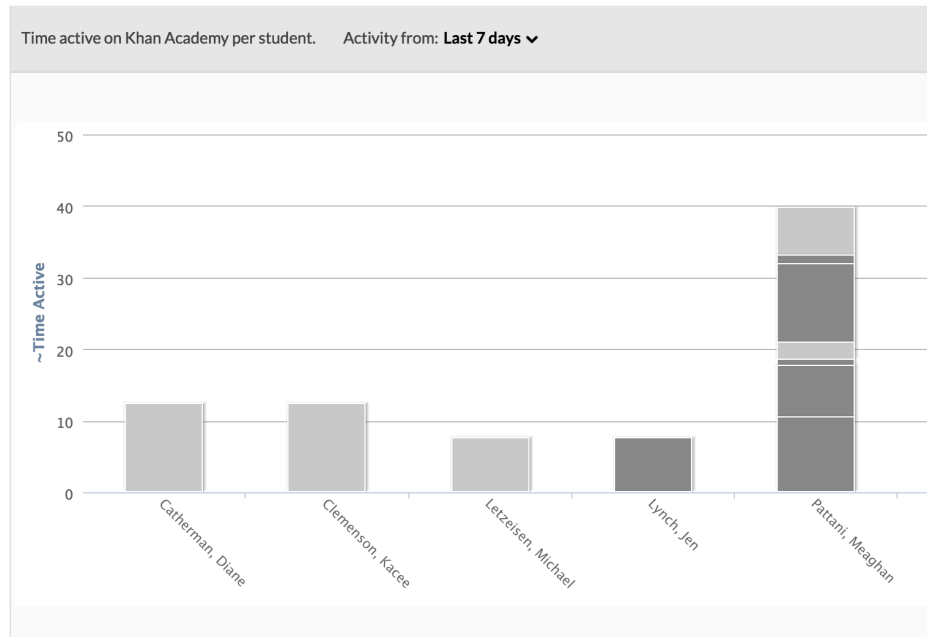
The screenshot shows the 'Content' tab selected in a navigation menu. The page title is 'Mrs. Williamson first period: Pre-algebra'. Below the navigation menu, there is a section for 'Pre-algebra' with a dropdown arrow. Underneath, there are two sub-sections: 'Arithmetic properties' and 'Place value'. The 'Arithmetic properties' section has a description: 'This tutorial will help us make sure we can go deep on arithmetic. We'll explore various ways to represent whole numbers, place value, order of operations, rounding and various other properties of arithmetic.' The 'Place value' section has a description: 'In this tutorial we'll learn about place value. This is key to better understanding what we're really doing when we count, carry, regroup, multiply, and divide with multi-digit numbers.'

## Student view of a problem

The screenshot shows a student's view of a Khan Academy problem. At the top, there is a navigation bar with 'Subjects', 'Search', and 'Khan Academy' logo. The user's name 'Amanda' is visible in the top right. The main heading is 'Slope-intercept from two points'. Below this, the problem text reads: 'Complete the equation of the line through (3, -1) and (4, 7). Use exact numbers.' followed by 'y ='. At the bottom, there is a 'Stuck?' button circled in pink with an arrow pointing to it, followed by the text 'Watch a video or use a hint.' and a 'Report a problem' link.

View the class Activity tab, which shows the number of minutes each student has spent on articles, videos, and exercises in a specific timeframe. If students are staying on task, their bars should be rising over the course of the period. Examine the exercise performance report to see if one or more students are struggling, and spend a few minutes working with students one on one or in a group. After the 20-minute mark, consider spending several minutes discussing the most challenging problems with the whole class.

### Activity tab



### After the lesson

Scan the exercise performance report again to look for trends. For instance, if students tended to meet your performance expectations, move on to a new concept to practice in the next class. However, if students did not meet your predetermined goal, continue practicing the same concept in a subsequent class.

### Exercise performance report

**Exercise: Area of triangles**  
11 / 11 | Due: 10/17/2017

[Download CSV](#)

DATE & TIME COMPLETED	ATTEMPTS	BEST SCORE	STUDENT WORK
Oct 16th, 2:47 PM	1	6 / 7 (85%)	<a href="#">View report</a>
Oct 16th, 2:49 PM	1	6 / 7 (85%)	<a href="#">View report</a>
Oct 16th, 2:47 PM	2	5 / 7 (71%)	<a href="#">View report</a>

# Practical tips from current classroom teachers

Use the Content tab to preview and assign a mix of videos, articles, and exercises to review.

Khan Academy's database includes more than 10,000 standards-based practice problems and related articles and videos. While there are multiple ways to find the right content, most teachers prefer to browse and assign content using the Content tab because it allows you to perform multiple functions on one page.

- View an entire subject from within your Coach dashboard.
- Make a single assignment that includes multiple pieces of content from any combination of subjects and units.
- Preview all content before assigning it—videos, articles, and even the exact problems in a given exercise, quiz, or unit test.

Once you have chosen the resources you want, select the classes, students, and due date you would like to associate with the assignment.

You can either assign the review material immediately or save your selections to assign later.

## Content tab

The screenshot shows the 'Content' tab selected in the top navigation bar. Below it, the '5th grade' dropdown is expanded, showing a list of resources. A pink arrow points to the 'Common fractions and decimals' section, and another pink arrow points to a 'Preview' link for an article.

## Preview a resource

The screenshot shows the 'Preview a resource' interface. The 'Preview' link is circled in pink. Below it, a list of 15 questions is shown, each with a fraction to be converted to a decimal.

## Select the classes, students, and due date

The screenshot shows the 'Assign 2 items' interface. The 'Assign (2)' button is circled in pink. Below it, a list of classes and students is shown, with the 'Assign (2)' button highlighted.

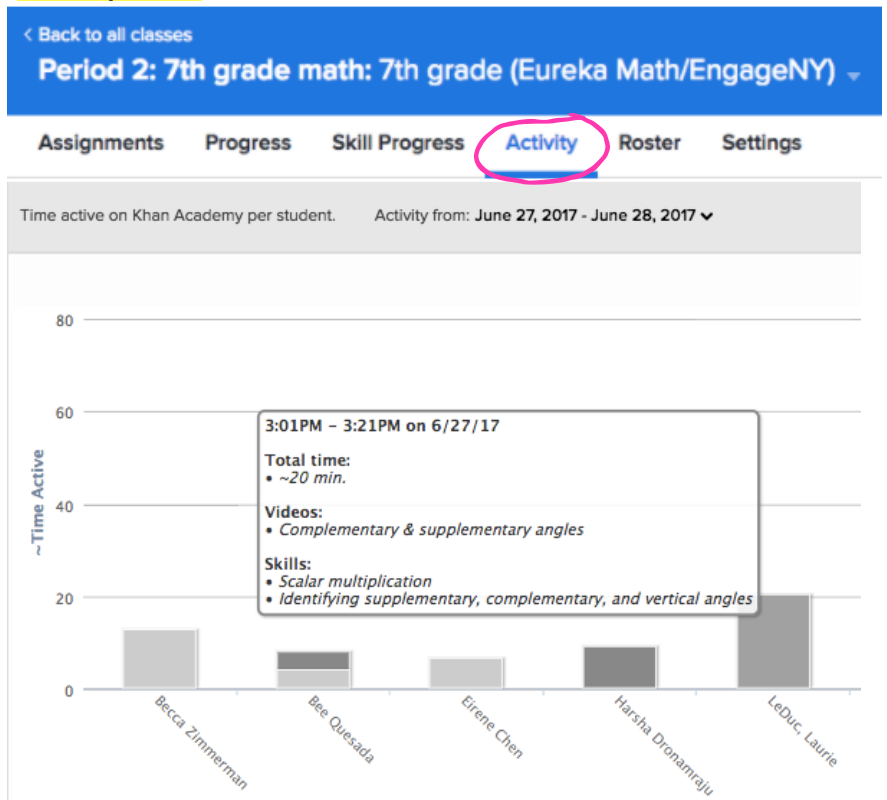
## Refresh and scan the reports in the Coach dashboard to make the most out of class time.

Monitor the Activity tab to see the number of minutes each student has spent on Khan Academy material over a specific timeframe. Whether they are working as an entire class, in small groups, or individually, students' Time active bars should be growing throughout the practice session.

Various reports under the Assignment tab allow you to see the performance of your classes and individual students and help you identify gaps in their understanding.

- Use the exercise performance report to identify students that may need support or enrichment. You can see when exercises were completed, the number of times a problem set was attempted, students' best scores, and links to students' performance on each item.
- Skim video and article completion reports during class to see if there are students who could use support with motivation or engagement. Then, check out our strategies for getting students excited about learning at [bit.ly/2HUyfHR](http://bit.ly/2HUyfHR).

### Activity tab



### Exercise performance report

Exercise: Area of triangles  
11 / 11 | Due: 10/17/2017

DATE & TIME COMPLETED	ATTEMPTS	BEST SCORE	STUDENT WORK
Oct 16th, 2:47 PM	1	6 / 7 (85%)	<a href="#">View report</a>
Oct 16th, 2:49 PM	1	6 / 7 (85%)	<a href="#">View report</a>
Oct 16th, 2:47 PM	2	5 / 7 (71%)	<a href="#">View report</a>

### Video completion report

Video: Complementary & supplementary angles  
3 / 9 | Due: 06/28/2017

STUDENT	DATE & TIME COMPLETED ▾
Duo Chen	Jun 27th, 3:12 PM
Blair Walsh	Jun 27th, 3:05 PM
Darcy Martin	Jun 27th, 2:52 PM

## Try the most-missed-problem technique.

Click View report on the assignments list to see class performance on the entire bank of problems in an assignment. The individual item report is sorted by the percent of students who saw a specific problem and got the correct answer. Note that not all students will have seen each question in the bank. The items your students found most challenging will appear first.

After a designated amount of practice time, you can spend several minutes discussing the most-missed problem. Have students discuss the correct solution in groups and brainstorm why that specific problem may have been the most challenging one for their class.

Project the problem on the board. You can click on any question in the individual item report to expand the screen, making it easier for your entire class to view and read an individual problem.

Use the Draw tab to annotate or debrief problems and the Solution tab to display a step-by-step solution for any item.

### Assignments list

(Eureka Math/EngageNY) ▾

Activity Roster Settings

e math: 7th grade (Eureka Math/EngageNY)			Acti
DUE DATE & TIME ▾	ASSIGNED ON	COMPLETED	
June 16th, 3:00 PM	June 16th	5 / 22	
June 16th, 4:00 PM	June 16th	2 / 22	
June 16th, 5:00 PM	June 16th	4 / 22	<a href="#">View report</a>



### Individual item report

**1** Correct: 33%

What is the relationship between  $\angle a$  and  $\angle b$ ?

Choose 1 answer:

- (A) Vertical angles
- (B) Complementary angles
- (C) Supplementary angles
- (D) None of the above

**2** Correct: 33%

What is the relationship between  $\angle a$  and  $\angle b$ ?

Choose 1 answer:

- (A) Vertical angles
- (B) Complementary angles

### Projector view

**Question 1: 33% correct on 1st attempt** Draw Solution

What is the relationship between  $\angle a$  and  $\angle b$ ?

Choose 1 answer:

- (A) Vertical angles
- (B) Complementary angles
- (C) Supplementary angles
- (D) None of the above



# Khan Academy teacher tools, resources, and support

## Overview of Khan Academy for teachers

Khan Academy is a 501(3)(c) nonprofit with the mission of providing a free, world-class education for anyone, anywhere. We provide teachers with simple, powerful tools that make it easy to personalize student practice.

Teachers use Khan Academy for in-class practice, homework, review, and test prep to help every student succeed. Khan Academy's free tools and high-quality content help teachers differentiate instruction, implement remediation, and provide enrichment.

Want to know more about how to use Khan Academy with your students? These four short videos will walk you through our teacher tools and website.

- Set up your class ([bit.ly/2wfwyQ1](https://bit.ly/2wfwyQ1))
- Find content and make assignments ([bit.ly/2FMjrfv](https://bit.ly/2FMjrfv))
- Understand the student experience ([bit.ly/2jEkrTD](https://bit.ly/2jEkrTD))
- Use reports for student insights ([bit.ly/2wlqRQs](https://bit.ly/2wlqRQs))

## Classroom strategy and implementation guides ([bit.ly/2rqEp8s](https://bit.ly/2rqEp8s))

- How-to guide: in-class practice
- How-to guide: homework
- How-to guide: review and test prep
- How-to guide: differentiation and remediation

## For more teacher resources

[khanacademy.org/resources](https://khanacademy.org/resources)

## For support

[khanacademy.zendesk.com](https://khanacademy.zendesk.com)