

Using practice sets

Google for Education

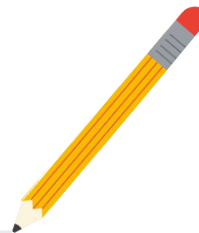
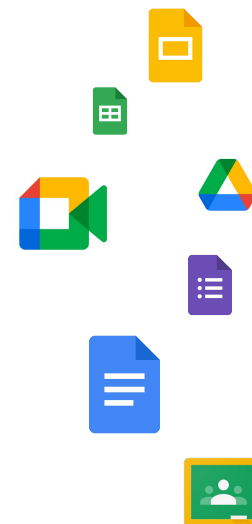


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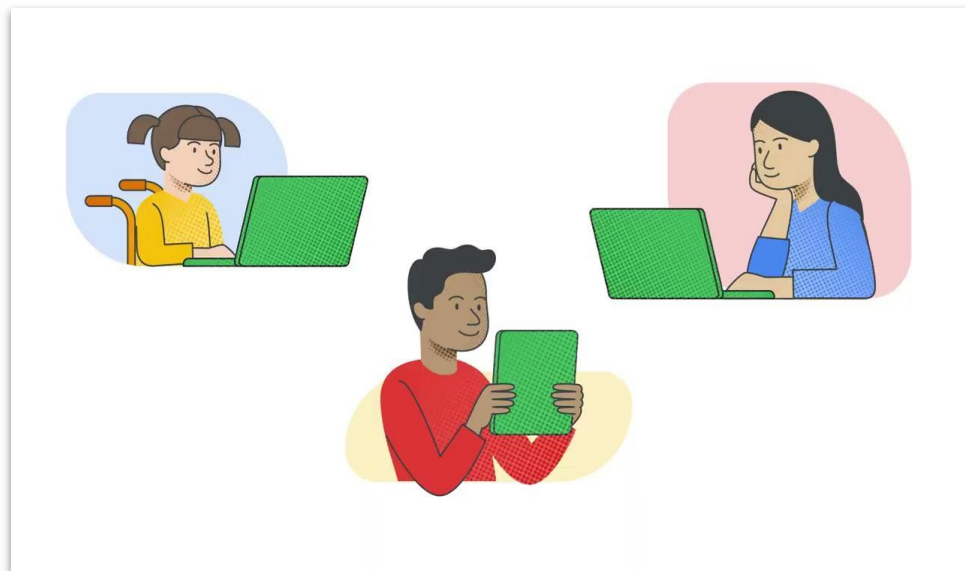


Overview of practice sets



Introducing practice sets

Transform any teaching content into engaging, interactive assignments that give educators better insights and inspire students as they work.



A flexible way to meet the needs of different classrooms

Practice sets are designed to be used in different learning environments and instructional strategies so students can feel more inspired across the learning continuum.

Leverage the power of Google technology and resources to support your instructional strategies.

With practice sets, you can:



Create for any content area

Create lesson plans for science, math, history, English language arts, music, and more.



Elevate learning for any grade level

Offer relevant support to primary and secondary students.



Choose how to differentiate instruction

Assign practice sets to your whole class, small group, or individual students.



Create a flexible strategy

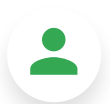
Use practice sets for general lessons, knowledge checks, homework, remediation, and more.



Use practice sets for blended learning

Distribute practice sets for station-rotation, individual rotation “playlists,” and flipped classroom.

How it works



Teachers create a practice set

Teachers sign in to Classroom and create practice sets using their own content, an existing practice set shared by another teacher, or starting from scratch.



Assign the practice set to students

Educators assign practice sets to the whole class, small groups, or individual students to complete. Assignment due dates automatically appear on student calendars and to-do lists when a practice set is assigned.



Students complete the practice set

Students can leverage hints and resources, use the notepad feature to show their work, and self-check their work throughout.



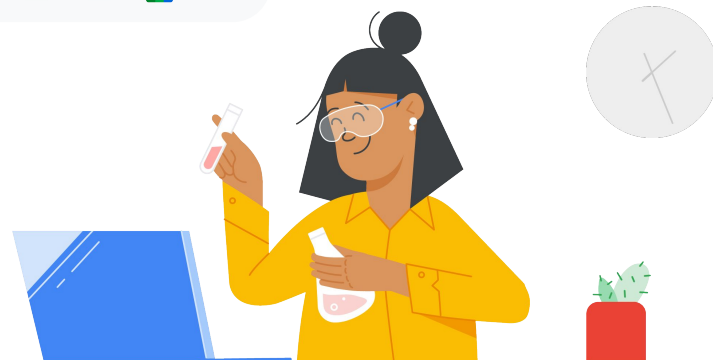
Educators review student work

Educators review holistic and problem-by-problem insights, or individual student work within Classroom.

Practice sets

Getting started

Follow these simple steps to learn how you and your students can easily use practice sets to enrich learning and drive instructional impact.



First, decide how you want to get started with a practice set assignment.



Create a practice set from scratch.
Start with [these instructions](#).

OR



Upload a PDF to create a practice set.
Start with [these instructions](#).

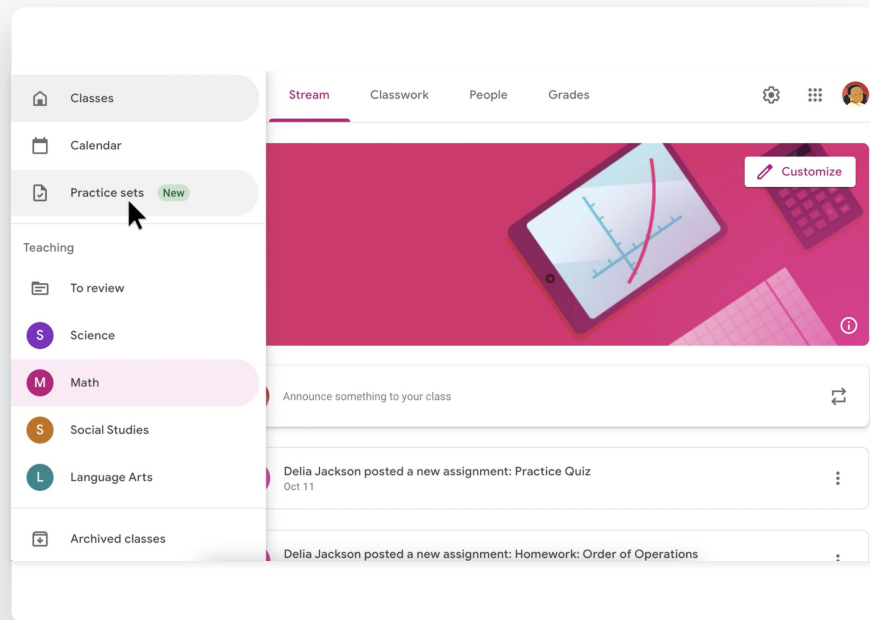
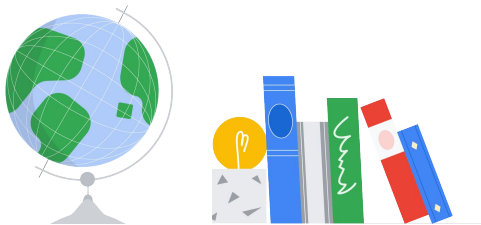
[Help Center](#)



Creating a practice set

Using practice sets in Classroom

- 1 Sign in to Google Classroom
- 2 Open the hamburger menu in the upper left-hand corner
- 3 Click on **Practice sets** in the main menu
- 4 Within My practice sets, click on **Create**



Explore the editor settings and options

The screenshot shows the 'Untitled practice set' editor interface. At the top, there are navigation and action buttons: a back arrow, 'Untitled practice set', undo and redo icons, a settings gear, 'Share', 'Try as student', and 'Done editing'. The main workspace contains a question block with the text '1. Type your question' and a dropdown menu set to 'Short answer'. Below the question is an input field with a summation symbol (Σ) and a red error message: 'Enter correct answer(s)'. At the bottom of the question block, there is a 'Skills' section with a search bar and a plus icon. A help icon (?) is located at the bottom left of the editor.

Callouts and their descriptions:

- Try the practice set in student mode, with autograding and hints:** Points to the 'Try as student' button.
- Add new block:** Points to the plus icon (+) on the right side of the editor.
- Import an existing PDF of lesson questions:** Points to the 'Import' option in the 'Add new block' menu.
- Select answer type:** Points to the dropdown menu in the question block, which is open to show options: 'Short answer' (Auto), 'Paragraph', 'Single-select' (Auto), and 'Multi-select' (Auto). To the right of this menu is a separate 'Auto' button.
- Autograded answer types:** Points to the 'Auto' buttons next to the 'Short answer', 'Single-select', and 'Multi-select' options.
- Add skills to activate hints and resources for students:** Points to the plus icon in the 'Skills' section at the bottom of the question block.
- Report an issue for practice sets, Practice sets help center, Getting started guide:** Points to a help menu on the left side of the screen.
- Link for help center:** Points to the 'Link for help center' text in the help menu.
- Duplicate and Delete:** Points to the 'Duplicate' and 'Delete' options in a menu at the bottom right of the editor.

Create a practice set from scratch

- 1 Create a [new](#) practice set and add a title
- 2 Select an answer type from the drop-down menu
- 3 Type in a question
- 4 Add in correct answer(s)
- 5 Select the (+) sign to add in additional text above the selected question or add a new question
- 6 Repeat these steps for two or more questions
- 7 Select **Done editing**



Google Classroom

Create a practice set from an existing PDF

- 1 Create a [new](#) practice set and add a title
- 2 Click **Import** below the first question editor or by clicking on the (+) sign and then selecting **Import**
- 3 Select a PDF from your Google Drive and select **Import** or upload a new file
- 4 Drag mouse over the text of each individual problem to select
- 5 Once all desired questions are selected, click **Import questions**
- 6 Adjust the size of the imported image by selecting the image and dragging it to fit within the light gray rectangle

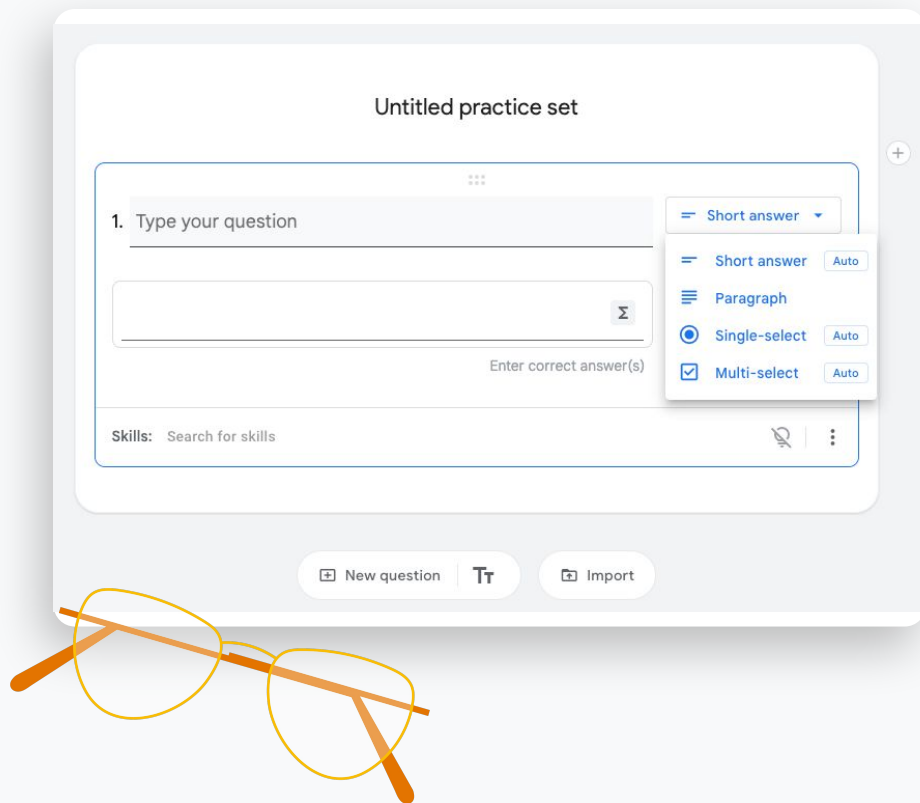


Google Classroom


Use autograded questions to boost student engagement

Autograded questions help teachers save time and increase student self-confidence by giving students the ability to check their answers as they work through a problem.

- Questions with **Auto** next to them mean that they're autograded questions that can provide immediate feedback.
- The **paragraph** question type doesn't provide immediate feedback and will need to be manually checked by teachers.

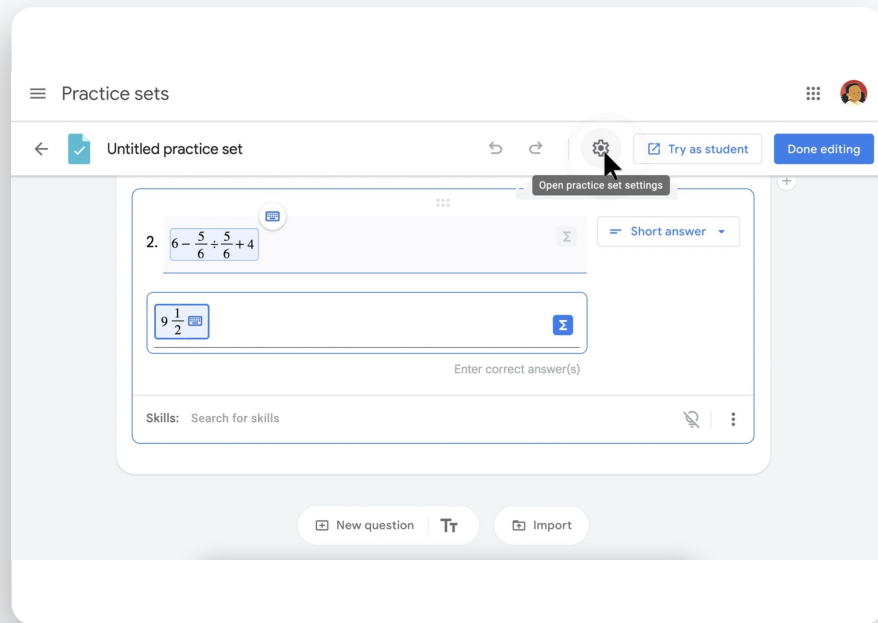


Enable accepting equivalent answers for autograded answers

Use the gear icon  to allow for **equivalent answers** (for example, $\frac{1}{4}$ and 0.25) and mark an autograded response correct regardless of **capitalization** (for example, Thursday vs. tHursday).

Other examples of equivalencies that can be set include:

- **Answer and answer set** (e.g., 4, $x=4$, $p=4$)
- **Silent punctuation** (e.g., Boyle's Law and Boyles Law)
- **Term ordering** (e.g., ham, egg, cheese – and egg, cheese, ham)



The screenshot displays the 'Practice sets' editor in Google Classroom. At the top, there's a navigation bar with a hamburger menu, the title 'Practice sets', and a user profile icon. Below this, the specific practice set is titled 'Untitled practice set'. On the right side of this bar, there are buttons for 'Try as student' and 'Done editing', along with a gear icon for settings. A tooltip 'Open practice set settings' is shown over the gear icon. The main area contains a question editor. The question text is '2. $6 - \frac{5}{6} + \frac{5}{6} + 4$ '. To the right of the question is a dropdown menu set to 'Short answer'. Below the question is an input field where the answer ' $9 \frac{1}{2}$ ' has been entered. At the bottom of the question editor, there is a 'Skills' search bar and a 'New question' button.



Add learning skills to provide support for students


Educators can give students real-time, point-of-use help on problems using the **'Skills'** auto-search option, located at the bottom of a problem.

- 1 **Start typing a word or phrase** of the skill you would like to provide as 'help' for students. (Help will be provided for students in the form of a skill card or video.)
- 2 **Select** the learning skill to attach it to the problem.

The **light bulb** will turn yellow when a help resource has been attached. Leave **'Skills'** blank to skip help on problems.

The screenshot shows the 'Practice sets' interface in Google Classroom. At the top, it says 'Practice sets' and 'Untitled practice set'. There are navigation icons (back, forward, refresh) and buttons for 'Try as student' and 'Done editing'. The main content area shows a math problem: '2. $6 - \frac{5}{6} \div \frac{5}{6} + 4$ '. Below the problem, there are input fields for '9 $\frac{1}{2}$ ×' and '9.5 ×'. At the bottom of the problem area, there is a 'Skills:' dropdown menu. A mouse cursor is pointing at the word 'fractions' in the dropdown. Below the dropdown, a list of skills is visible: 'Solve word problems with division of unit fractions', 'Compare two fractions with the same numerator or the same denominator', and 'Use visual models to represent adding and subtracting fractions with like denominators'.

Use the math/science keyboard to create numerical problems

Students can access the  icon in the practice set to open the math keyboard.

Note: This keyboard is not a calculator and will not calculate problems for students.



Practice sets

Untitled practice set

Try as student Done editing

2. $6 - \frac{5}{6} \div \frac{5}{6} + 4$

Short answer

Toggle math answers


Enter correct answer(s)

Skills: Search for skills

abc π ∞ % \pm \square° $\frac{\square}{\square}$ \leftarrow \rightarrow \times




ABC e lim \int min $\sqrt{\square}$ 7 8 9 \div

Experience practice sets as a student

Before you assign a practice set, click on **Try as student**  **Try as student** to preview what your students will experience.



Practice sets

←  Word Problems and Fractions  Try as student  Edit




Word Problems and Fractions

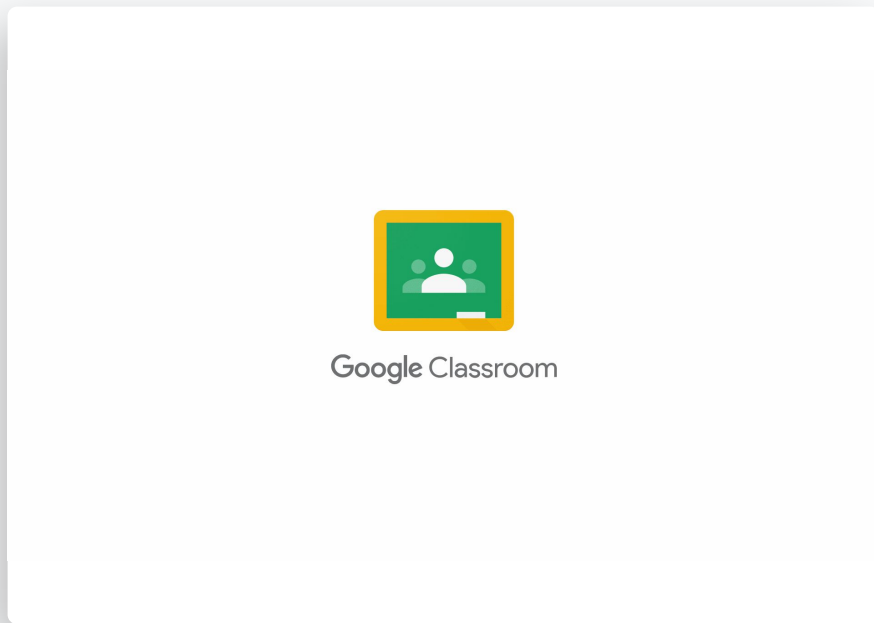
Use the notepad to draw a model of the problem.

1. Mateo had 12 doughnuts. He wanted to share equally with two of his friends. How many doughnuts to each of the three friends get?

Edit and rearrange questions before assigning

Educators have the opportunity to make changes to a practice set before assigning it.

- 1 In the editor view, click on the **Edit** button  in the upper-right corner.
- 2 Make any edits you'd like – including rearranging the order of problems – by placing your cursor over the drag-and-drop icon  located at the top center of every problem. Then, drag the problem to where you would like it.
- 3 When you're finished editing, click the **Done editing** button  in the upper-right corner.



Send & receive a practice set

Send practice sets

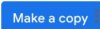
Practice sets can be shared with other [verified teachers](#) within your Google Workspace so that they can preview and make a copy of a practice set.

- Select the **Share** button in the top bar
- Turn **link sharing on** using the toggle, to provide access to that practice set
- **Copy the link** by pressing the button and send or post the link to share the practice set



A screenshot of the Google Classroom interface. At the top, it says 'Practice sets' with a hamburger menu icon on the left and a grid icon with a profile picture on the right. Below that, there's a navigation bar with a back arrow, a checkmark icon, and the text 'Fractions Practice'. To the right of this are three buttons: 'Share', 'Try as student', and 'Edit'. The main content area shows a preview of the 'Fractions Practice' set. It has the title 'Fractions Practice' at the top, followed by the instruction 'Show your work.'. Below that is a question: '1. If I ate 1/3 of a pizza for breakfast and 1/3 for lunch, how much pizza will I have left for dinner?'. There is a text input field below the question. At the bottom left of the preview area is a question mark icon. Below the first question is another question: '2. Which fractions are equivalent to 1/2?'. The preview area has a vertical scrollbar on the right side.

Receive a practice set

When a teacher receives the link to a practice set they are able to **preview the content** and click the “**Make a copy**” button  to add the practice set to their own library.

Make changes to your copy and assign to students by accessing the practice set library when creating a new assignment.

Note: If you see a no access screen, check that the owner has the share toggle on or talk to your admin about getting added to [verified teachers group](#), so you can receive practice sets.

A screenshot of a web browser showing a Google Classroom practice set. The browser tab is titled "Polynomial equations" and the address bar shows "practicesets.classroom.google.com/abcdef_uniqueurl". The page header includes a hamburger menu, the text "Practice sets", a user profile icon, and a "Make a copy" button. Below the header, the page title is "Polynomial equations". The main content area contains two math problems:

1. What's the value of x in the following equation:
 $(x+3) \times 2 = 2$
An empty input box is provided below the equation.
2. What's the value of x in the following equation:
 $(x+3) \times 2 = 2$

Assigning a practice set

Creating an assignment

- 1 Sign in to Google Classroom
- 2 Select a Class, then go to the **Classwork** tab, click **Create**, and choose **Assignment**
- 3 Create an assignment and add a title or instructions (optional)
- 4 Within the Attach options, select **Practice sets**
Select the desired practice set and click **Attach**.
- 5 Attach any additional reference materials as needed.
- 6 Adjust the assignment title if desired and click the **Due** drop-down menu to set an assignment due date
- 7 Select **Assign** to finish



Google Classroom

Use differentiation to tailor instruction when distributing assignments

Practice sets can be assigned to your whole class, small groups, or individual students to benefit students across the learning continuum.

- Select the **All students** drop-down option to change from assigning the practice set to the whole class or to other student groups.
- Click the **Assign** button when finished to distribute the assignment to the selected students.

The image displays two screenshots of a digital assignment interface. The left screenshot shows the configuration options for an assignment, and the right screenshot shows the student selection options.

Left Screenshot (Configuration):

- Buttons: Saved, Assign
- For: Math (dropdown), All students (dropdown)
- Points: 100 (dropdown)
- Due: No due date (dropdown)
- Topic: No topic (dropdown)
- Rubric: + Rubric (button)
- Check plagiarism (originality) (checkbox) [Learn more](#)

Right Screenshot (Student Selection):

- Buttons: Saved, Assign
- For: All students (checkbox checked)
- Math: Alex Ko (checkbox checked)
- Points: 100: Allen Shapiro (checkbox checked)
- Due: Amir Fadel (checkbox checked)
- No due date: Helen St. Claire (checkbox checked)
- Topic: Jamie Albert (checkbox checked)
- No topic: Katherine Kim (checkbox checked)
- Rubric: + Rubric (button)
- Ken Mandel (checkbox checked)
- Check plagiarism (checkbox unchecked) [Learn more](#)
- Miguel Lopez (checkbox checked)
- Robert Duffy (checkbox checked)

The student experience

Overview

The student experience

Inking tool

Students can use a mouse, stylus, or their finger to use the pen and eraser

Show your work

Students can show their work using the notepad

Extra help

If you provided skills, students can click on resources to access skill cards and videos to scaffold their thinking

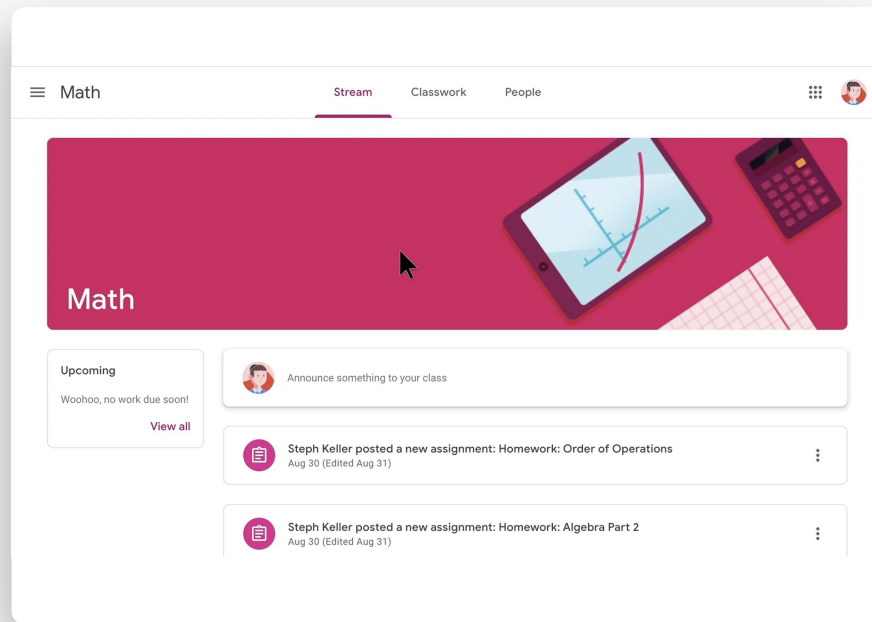
Light bulb

If you provided skills help, the light bulb will turn solid yellow to notify your students

The interface shows a problem: 1. $3(6+7)$. A text input field contains the answer 16. A "Check" button is visible. A notepad shows the handwritten work: $3(13) = 16$. A "Show a hint" button with a lightbulb icon is also present.



Enable more seamless student work within Classroom

Students can access practice sets within their Classroom by simply clicking on an assignment that has a practice set attached.



Interactive lessons that capture student thinking

Empower students to demonstrate their understanding of concepts.

- Students can leverage the unobtrusive  **inking tool**, found to the left of each problem.
- When the inking tool icon is clicked, the **pencil** and **eraser** options can be used to manually write in answers.
- Optionally, the **notepad** icon  allows students to work out problems.



Order of Operations

1. $3(6+7)$

16

Check

Show a hint

Extra Help

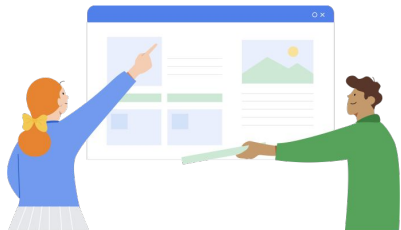
$3(13)$
 $= 16$

The image shows a screenshot of an interactive learning interface. At the top, it says 'Order of Operations'. Below that, a problem is presented: '1. $3(6+7)$ '. To the right of the problem is a text input field containing the number '16'. Below the input field is a 'Check' button. To the right of the 'Check' button is a 'Show a hint' button. At the top right, there is an 'Extra Help' button. On the left side, there is a vertical toolbar with a pencil icon and an eraser icon. Below the toolbar is a notepad area where the student has handwritten the solution: $3(13)$ followed by $= 16$. A question mark icon is visible at the bottom left of the interface.

Inspire critical thinking and student agency

Give students opportunities to conceptualize, reason, evaluate, and reflect on their answers when you provide point-of-use support.

- Students can click on the **light bulb** to activate accessible hints and resources provided to them.
- Real-time remediation helps scaffold student learning and improve engagement, self-confidence, and student motivation.

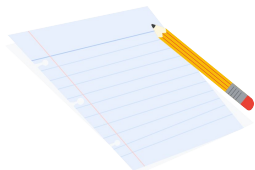
A screenshot of a digital learning interface titled "Order of Operations". The interface shows a problem: "1. $5 \times 3 \times 2$ ". Below the problem is a text input field containing the number "35". To the right of the input field is a "Check" button. On the left side of the interface, there is a vertical toolbar with a lightbulb icon (highlighted in blue) and other icons. Below the main problem area, there is a whiteboard area with a grid background. On the whiteboard, the following calculations are written in a handwritten style: $5 \times 3 =$, $15 \times 2 =$, and 35 . The interface also includes a "Close" button (X) in the top left corner and "Unsaved changes" in the top right corner.

Reviewing student work

Holistic insights for informed decisions

Insights provide an overview of the class strengths and areas of need to inform next steps. At a glance, educators can save time by:

- Inferring big ideas and insights for the whole class and individual students
- Reviewing problem-by-problem results
- Viewing individual student scores and performance summaries



Grammar Homework

All students

Return

Insights

- Many students got #1, #3 incorrect.
- Amir Fadel, Helen St. Claire, Allen Shapiro are struggling with many problems.

Students	Score	1	2	3	4
All students					
Amir Fadel	0 / 4	✗	✗	✗	✗
Allen Shapiro	1 / 4	✗	✗	✗	✓
Helen St. Claire	2 / 4	✗	✓	✓	✓
Rajen Agarwal	3 / 4	✓	✓	✗	✓

Problem 1

1. Choose the incorrect sentence.

I finished the test in less time than I did last year.

He scored less points than I did.

There are fewer muffins than there were yesterday.

Overview

Insights

Holistic view of class performance to provide an overview of the class strengths and areas of need

The number of attempts will be indicated in the green circle

The screenshot displays the 'Grammar Homework' interface. At the top, it shows the title 'Grammar Homework' and the user 'Helen St. Claire' with a 'Turned in' status. Below this, there is an 'Insights' section with a lightbulb icon. The insights include: 'Many students got #1, #3 incorrect.' and 'Amir Fadel, Helen St. Claire, Allen Shapiro are struggling with many problems.' Below the insights is a table of student performance:

Students	Score	1	2	3	4
All students					
Amir Fadel	0 / 4	✗	✗	✗	✗
Allen Shapiro	1 / 4	✗	✗	✗	✓
Helen St. Claire	2 / 4	✗	✓	✗	✓
Rajen Agarwal	3 / 4	✓	✓	✗	✓

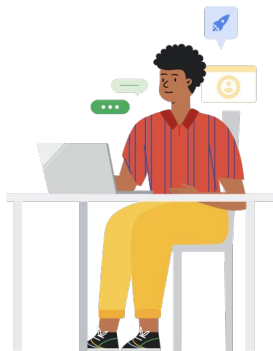
Below the table, a detailed view of Helen St. Claire's performance is shown, including a '2' in a green circle, two green checkmarks, and two red X marks. The right side of the interface shows a list of problems, with the first problem being 'There are fewer muffins than there were yesterday.' and the second being 'Joseph Wharton, along with his many successful business ventures, has helped shape the history of American industry.' The first problem is marked as 'Correct' and has '+ 1 Attempt' displayed next to it.

The number of problems answered correctly vs. incorrectly

Displays the number of attempts the student took to answer the problem

See results in Classroom

- 1 Sign in to Google Classroom
- 2 Select a **Class**, then go to the **Classwork** tab
- 3 Click an **Assignment** and select **View assignment**
- 4 From the assignment page, select **Class insights**



Google Classroom

Provide students with tailored instruction

From assignment insights, **click on a student** to access the completed assignment for that student. Educators can then evaluate if small group, 1:1 remediation, or other acceleration opportunities are needed by reviewing:

- The number of attempts made on a problem
- Correct answers in **green** and incorrect answers in **red**
- Unanswered – or incomplete – problems



Grammar Homework

Helen St. Claire Turned in < > Return

Insights

- Many students got #1, #3 incorrect.
- Amir Fadel, Helen St. Claire, Allen Shapiro are struggling with many problems.

Students	Score	1	2	3	4
All students					
Amir Fadel	0 / 4	✗	✗	✗	✗
Allen Shapiro	1 / 4	✗	✗	✗	✓
Helen St. Claire	2 / 4	✗	✓	✗	✓
Rajen Agarwal	3 / 4	✓	✓	✗	✓

Helen St. Claire 3 ✓ 1 ✗

There are fewer muffins than there were yesterday.

Problem 1 +1 Attempt Correct

2. Joseph Wharton, along with his many successful business ventures, has helped shape the history of American industry.

No change

Wharton, including his many successful business

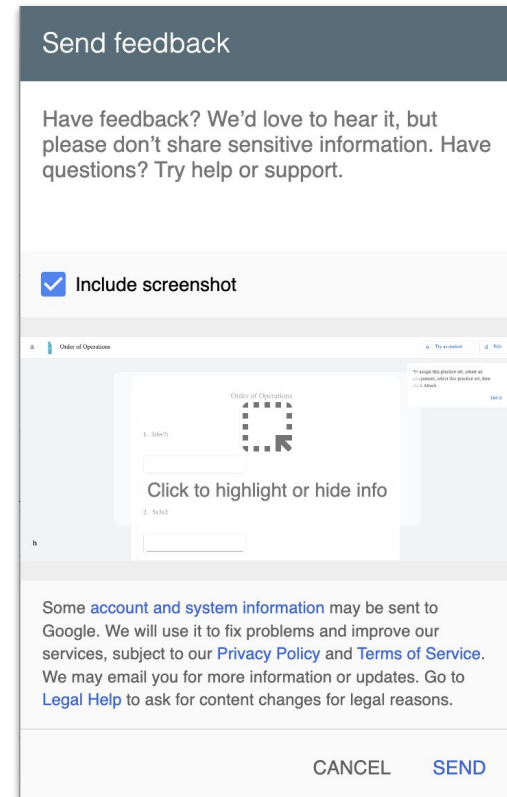
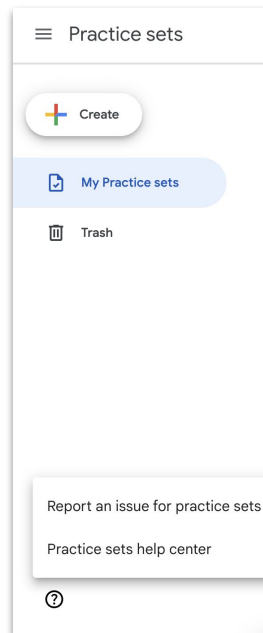
Providing feedback

Provide feedback

We'd like to hear from you. Please provide feedback to us directly via the **Send feedback user tool** within Classroom:

- Within practice sets, click the (?) icon and select **Report an issue for practice sets**
- Please include screenshots when possible

Note: In addition to in-product feedback and surveys, we will be doing check-in surveys through Google Forms and in-depth interviews through Google Meet. The first check-in survey will be in early May, where you'll also be able to express interest in participating in an interview about your experience using practice sets. Stay tuned.



Thank you

 for Education

OPTIONAL

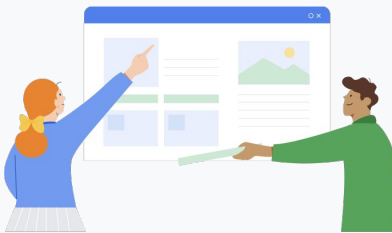
Educator 'show and tell'

Educator 'show and tell'

Let other educators know about the practice set feature you are most excited about by sharing one of the following social messages on your social channels and including the hashtag #GoogleClassroom or #GoogleEdu.

Tell colleagues about practice sets

- Which practice set feature are you most excited about?
- If you are a teacher, how do you envision using practice sets in your classroom?
- How will practice sets support your students?



Social messages and assets

Grab-and-go messages to use

Feel free to use one of the following messages to share with your colleagues on your social channels.

Use a hashtag

#GoogleClassroom

#GoogleEdu

1

Attn fellow teachers: Make sure you include [practice sets](#) in #GoogleClassroom in your list of time-saving tools 🕒 with autograded lessons, insights, and real-time feedback for students.

2

Have you heard about [practice sets](#) in #GoogleClassroom? Create quick, interactive assignments great for the whole class, a small group, and individuals.

3

#DYK you can create a [practice set](#) in #GoogleClassroom from an existing lesson? Import your favorite question PDFs and transform them into interactive lessons!

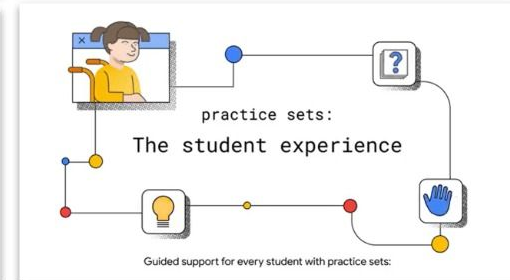
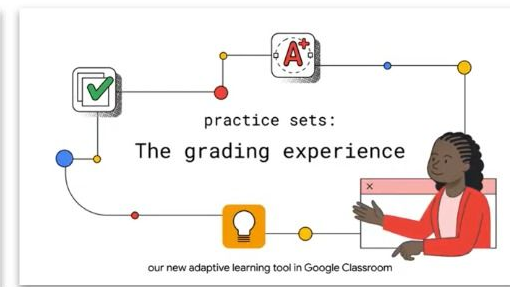
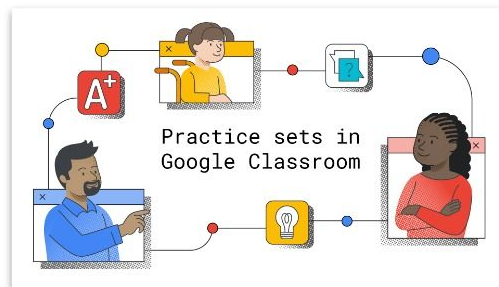
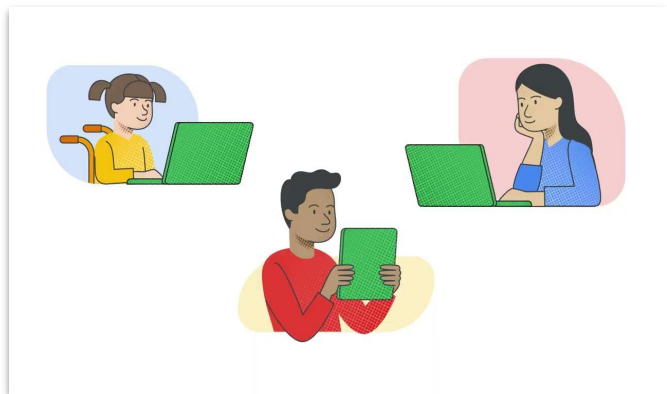
4

#DYK that practice sets in #GoogleClassroom make it easy to create lessons, knowledge checks, homework, remediation, and more? [Check it out!](#)

5

Have you heard about [practice sets](#) in #GoogleClassroom? These interactive assignments are great to use for remediation and differentiation to support our individual students.

Images and resources you can use for your social posts



[Practice sets: a more personal path to learning](#)

[Let's get personal: adaptive learning tech and education](#)