

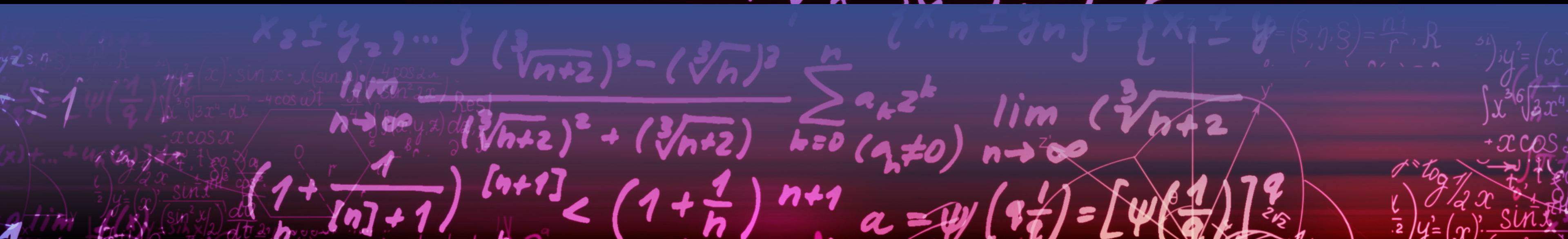


Using AI in Canva to create teaching materials in Math

Bridging Mathematics and Technology for Deeper Learning —
AI and other tools in the Mathematics Classroom Conference

AGENDA

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Join activities!

<https://ej.uz/canvaaitools>

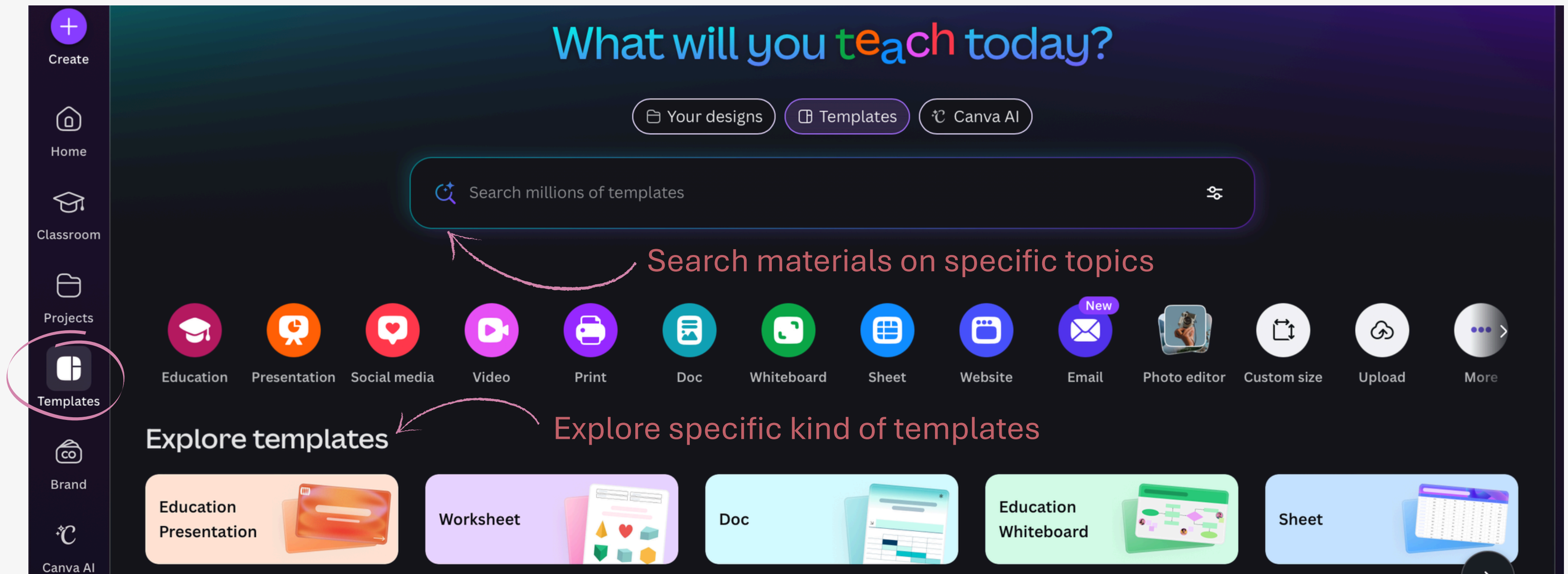


Canva makes it easier to **create** engaging presentations, infographics, and educational materials. Teachers can **design** unique worksheets, lesson plans, and posters to enhance learning and other materials. Canva's **collaborative features** also allow sharing designs with colleagues or students.

AI tools in Canva can assist teachers in saving time on creating educational materials or brainstorming new ideas and lesson plans.

USE EXISTING MATERIALS

Explore and use already created free templates or materials.



UPDATE YOUR MATERIALS

Upload and edit your teaching resources in Canva. Canva turns your materials into an editable design so you can make easy updates and improvements. Share your uploaded teaching materials as a resource or solo activity for your students to complete

PDF FILE

The PDFs you import will be transformed into A4 designs, featuring images and editable text.



POWERPOINT PRESENTATIONS

Your previously created PowerPoint presentations, once imported, will transform into editable Canva presentations.



WORD DOCUMENTS

Your previously created Word documents, that you import, will transform into editable Canva Docs.



DESIGN NEW MATERIALS

BROWSE AND ADJUST EXISTING TEMPLATES

Use the search bar or browse through the available templates in the search results. Click on a template that suits your needs to open it. It is possible to customize text, images, and layout or add additional information.



CREATE NEW MATERIALS USING AI

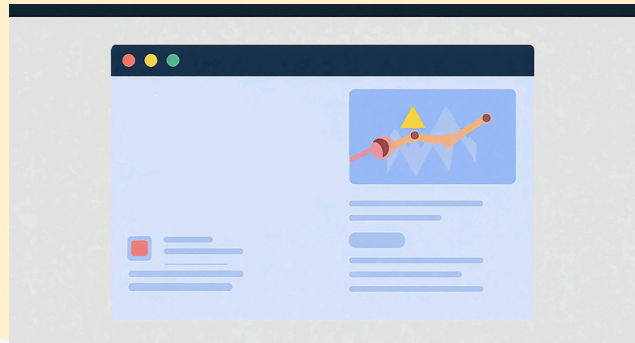
Canva AI tools enable users to generate fresh content from scratch, design visually appealing layouts, and incorporate interactive elements, making it easy to craft engaging educational materials.



TEMPLATE TYPES

PRESENTATION

Present visual aids and incorporate interactive elements



INFOGRAPHICS

Can help in illustrating abstract ideas.



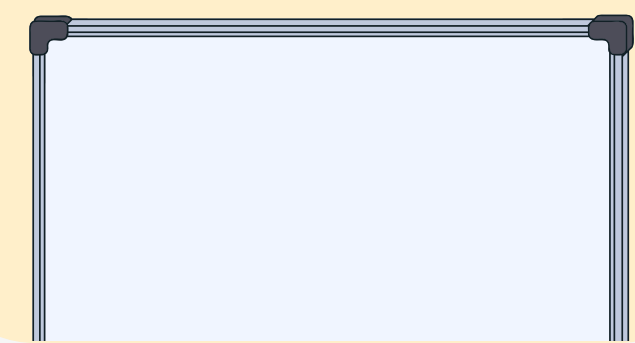
POSTER

Can help visually illustrate abstract concepts.



WHITEBOARDS

Can help students and teachers to collaborate.



FLASHCARDS

Can be interactive materials that can be used during lessons.



SHEETS

Can help create quizzes and worksheets.



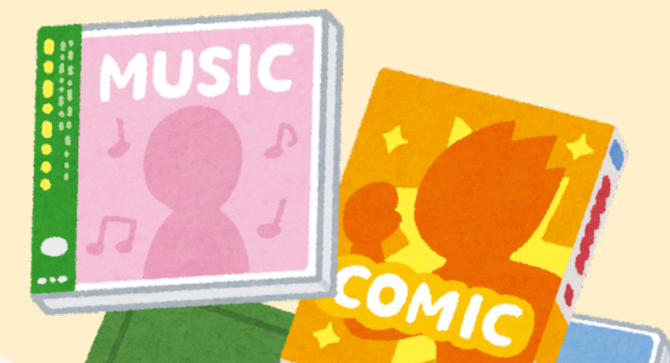
DOCS

Can help teachers to collaborate.



OTHERS

For example, comic strips, story books, etc.



CREATE LESSON USING AI

Magic Activities generate classroom-ready content.

MAGIC ACTIVITIES

1. Tap on Classwork from the Canva homepage and select *Magic Activities*.
2. In the box, enter your prompt: *Students will be able [learning verb] [specific topic]*.
3. Select *[Year]*, *[Subject]*, and *[Learning purpose]* from the dropdowns.
4. Choose the activities you'd like to generate.
5. Tap the purple arrow.

CREATE LESSON USING AI

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Ideas for prompts:

- Students will be able to **apply** fractions and decimals to solve problems involving money or measurement.
- Students will be able to **interpret** data from graphs or charts and explain what the data shows.
- Students will be able to **solve** real-world problems using ratios, percentages, or proportions.
- Students will be able to **compare** the cost of two items using unit rate and justify the better deal.

TYPES OF GENERATIVE AI TOOLS

TEXT CREATION

AI tool to generate, summarize, and analyze written content. Canva AI tools for text creation:

- Magic Write: This AI tool helps generate creative and engaging text based on prompts. Also it offers to rewrite text, fix spelling, continue to write text, to shorten text and also to rewrite text in specific voice (more fun, formal, or other).
- Magic Switch: This tool includes an option to create a summary of a document.
- Magic Insights: This tool performs data analysis using AI.

Remember to double check AI created texts!

IMAGE AND VIDEO CREATION

AI tool to create images or videos from text prompts. Canva offers Magic Media. AI tool that generates unique images, graphics, or videos. Just have to describe what you want to see, and choose preferred style and size.

CODE GENERATOR

An AI tool designed to help with programming-related queries. Canva offers Canva AI (code generator) that creates interactive website or tool based on prompt. All responses are captured in connected Canva Sheet.

TEXT CREATION

Try Magic Write!

To access Tap "/" on your keyboard and then select "*Magic Write*". Enter your prompt and click "*Generate*". Once you're satisfied with the outcome, click "*Insert*".

KICKSTART YOUR LESSON PLAN

Craft a lesson plan tailored to your curriculum standards and students

Try: *Generate a simple lesson plan for [grade] [objective].*

PREPARE EDUCATIONAL CONTENT

Develop meaningful learning materials for students.

Try: *Suggest math games to teach [concept] to grade [number]*

GENERATE DIFFERENTIATION IDEAS

Differentiate tasks and activities by students unique learning abilities or interests.

Try: *Create a question based on [objective] for [students name]*

ASSESSMENT TASKS

Will help check for student understanding and assess their knowledge.

Try: *Create a list of open-ended question ideas on [topic] for grade [number]*

Step by step guide

- 1Click into the **Warm-up Question** cell D4 and press "/" and select "Magic Write" and write prompt: *"Create a question based on square root for grade 8 based on real-life example for Beth"*.
- 2Select the cells: B5-D10. Go to  Actions in the floating toolbar and select Fill empty cells.
- 3Select Cell E4 and open "Magic Write" and type in "Give me the answer to D4" and then generate.
- 4Select the cells: D5-E10. Go to  Actions in the floating toolbar and select Fill empty cells.
- 5In Cell F4 select **Bulk Create** from the floating toolbar.
- 6Select Data from B3:D10
- 7Select  Continue with current design
- 8Connect the data in sheet to the information in document

Disclaimer: *In compliance with the General Data Protection Regulation (GDPR), we are committed to safeguarding students' personal and private data. As educators, we have an obligation to ensure that such information is protected and not used in conjunction with AI technologies.*

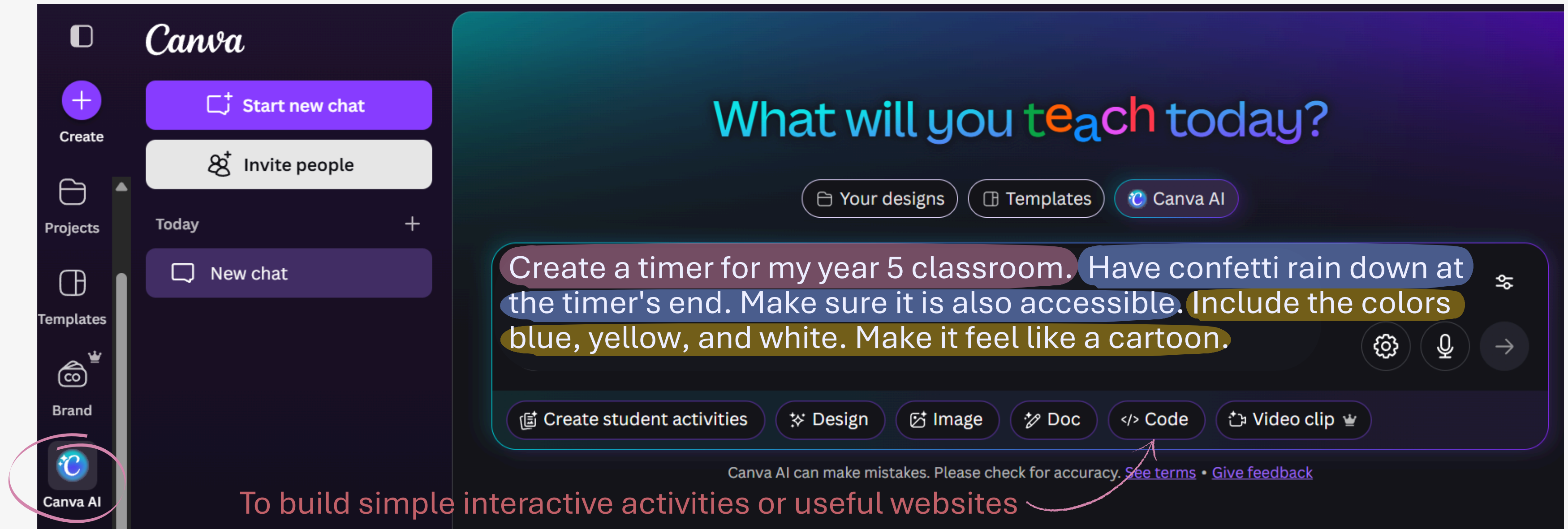
Try Magic Write - differentiate

Start with one template and create many individual versions. Update the questions based on students learning activities.

Student Name	Subject	Warm Up Question: Based on: <i>Squareroots</i>	Design	Answer to Warm up question	Design
Beth	Math	If Beth walks 16 meters on each side of a square garden, what is the square root of the total area she covers?	 (Bulk 1) Nordplus_Canva and AI f...	16 meters × 4 sides = 64 meters perimeter. Each side is 16 meters, so area = 16 × 16 = 256 square meters. The square root of 256 is 16.	
John	Math	If John's square-shaped backyard has an area of 49 square meters, what is the square root of the area?	 (Bulk 1) Nordplus_Canva and AI f...	The square root of 49 is 7, so each side of the backyard is 7 meters.	
Sam	Math	Sam has a square car parking area with a perimeter of 24 meters. Calculate the square root of the area enclosed by the parking space, and explain the geometric reasoning behind your solution.	 (Bulk 1) Nordplus_Canva and AI f...	Each side is 24 ÷ 4 = 6 meters, so area = 6 × 6 = 36 square meters. The square root of 36 is 6.	
Paul	Math	Paul plants four square flower beds, each with an area of 25 square meters. What is the square root of one bed's area?	 (Bulk 1) Nordplus_Canva and AI f...	The square root of 25 is 5, so each flower bed has sides of 5 meters.	
Grace	Math	Grace's square tile has an area of 36 square centimeters. What is the square root of the area?	 (Bulk 1) Nordplus_Canva and AI f...	The square root of 36 is 6, so each side of the tile is 6 centimeters.	
Andrew	Math	Andrew walks along a square field with an area of 81 square meters. What is the square root of the area?	 (Bulk 1) Nordplus_Canva and AI f...	The square root of 81 is 9, so each side of the field is 9 meters.	
Sarah	Math	Sarah builds a square sandbox with an area of 64 square meters. What is the square root of the area?	 (Bulk 1) Nordplus_Canva and AI f...	The square root of 64 is 8, so each side of the sandbox is 8 meters.	

CODE GENERATOR

Try Canva AI!



To build simple interactive activities or useful websites

1

What do you want to create?

2

What you want the widget to do?

3

Style of the widget

CODE GENERATOR

Try Canva AI!

INTERACTIVE MATH GAME

What do you want to create?

Create an interactive math adventure game

What you want the widget to do?

The game should require students to solve math problems to progress through the storyline. It should have multiple levels or areas to explore, each unlocked by answering math problems correctly. As students solve problems, they move forward in the adventure and reach new milestones or challenges. Include rewards, such as unlocking new chapters or areas, for completing math challenges. The storyline should be engaging, with math problems tailored to different difficulty levels and topics such as addition, multiplication, division, etc.

What is the style of the widget?

Make the game visually appealing with animations and colorful graphics to enhance the adventure experience.

If you want, adjust the prompt.

CODE GENERATOR

Try Canva AI!

MATCHING GAME

Create a "Function Matching Game" where students match different function formulas with their graphs for grade 9. When a correct match is made, show a positive animation like a dancing happy face ; if incorrect, gently highlight the mismatch and let them try again. Include a “Next Round” button.

If you want, adjust the prompt.

OTHER USEFUL AI TOOLS

LIST

For editing images - select an image and on the top toolbar select *Edit*.

- **Background remover** - can remove backgrounds to uploaded images.
- **Magic eraser** - can remove selected objects from image.
- **Magic grab** - can move selected item/object from image.
- **Magic edit** - can edit image by adding objects with AI.
- **Grab text** - can select text in image.

For review:

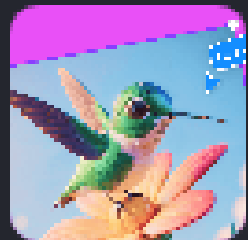
- **Design accessibility** - feature will show you where accessibility can be improved (font sizes, font colour, etc.). To access it tap *File* (on the top left corner), then go to *Accessibility*, select *Check design accessibility*.

CANVA DESIGN SCHOOL

Learn more and earn certificate!



Engage students with Canva



AI in the classroom



Teacher essentials

Questions?

Date:



Solve the problem without using calculator and do not forget to show your work.

Question 1

[Created question]

[illegible]