



How to Create a Custom Gem in Google Gemini

A step-by-step guide for educators to build personalized AI assistants

What Are Gems?

Gems are custom versions of Google's AI chatbot, Gemini, that you can create for specific tasks and topics. The core idea is to have a personalized AI assistant that remembers your specific instructions and context, saving you from having to repeat them in every new chat.

This concept is similar to the "Custom GPTs" offered by OpenAI. You give a Gem a name and a set of instructions that define its persona, its purpose, and how it should respond.

For educational institutions, Gems are available for free to all educators with Google Workspace for Education accounts. For personal accounts, Gemini Advanced subscription is required.

Creating Your Custom Gem

1

Access Gemini

Log in to gemini.google.com. Click the “+” button next to Gems in the sidebar.

2

Define Purpose

Write clear instructions: persona, tasks, student info, standards, and output format.

3

Name Your Gem

Choose a descriptive name like “Biology Lesson Planner” or “History Essay Helper.”

4

Save and Test

Click Save, then test with prompts. Edit and refine instructions based on results.

Writing Effective Instructions

The instructions are the most important part—be as specific as possible:

- Start with a clear persona: “You are a friendly and encouraging high school biology teacher.”
- State what you want: “Your primary role is to help me create engaging, differentiated lesson plans.”
- Include student context: “My class includes English Language Learners and students with IEPs.”
- Specify standards: “All lesson plans must align with the Next Generation Science Standards.”
- Define format: “Structure with Objectives, Materials, Warm-Up, Main Activity, and Exit Ticket.”
- Set constraints: “Each lesson plan should be designed for a 45-minute class period.”

Tips for Success



Be Specific

The more detail you provide, the better the Gem performs.



Iterate Often

Refining instructions is often the most important step.



Check Quality

Review results carefully—quality makes or breaks your Gem library.



Include Context

Add student profiles, class length, and pedagogy preferences.



Stay Aligned

Ensure outputs align with curriculum standards and student needs.



Build a Library

Create multiple Gems for different tasks to maximize efficiency.

“The refining and improving process is often the most important step in creating a Gem. Be sure that you are reviewing results and continuing to refine your instructions to produce the exact outcome you need.”

— AI in Education Studio



Thank You

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**Start building your first Gem today at
gemini.google.com**