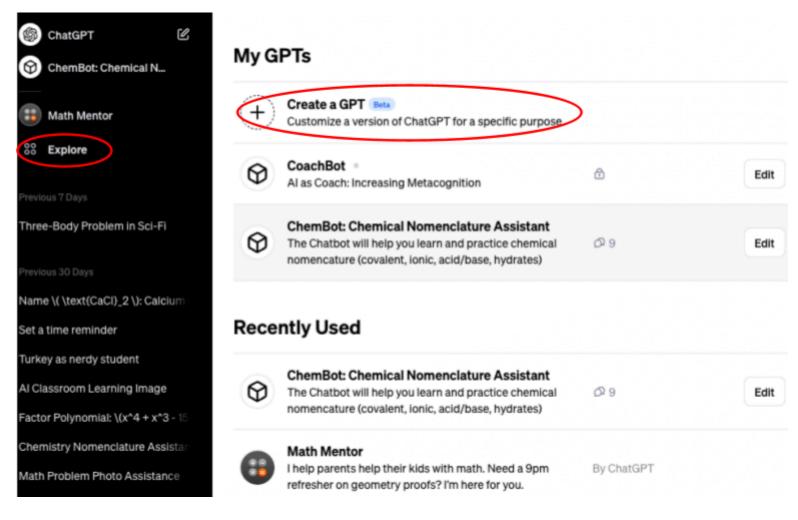
Steps for Making a Customized Chatbot via GPTs

 The process for making a customized chatbot starts with logging into ChatGPT Plus, enabling beta features in your settings, and choosing the "Explore" option from the main menu, followed by "Create a GPT":



2) The chatbot creation interface has two modes, one where you collaborate with GPTBuilder to "Create" your custom chatbot conversationally, answering a series of questions posed along the way. The other mode, "Configure", allows you to dive right into direct construction with a prompt of your own design.

← → C a chat.openai.com/gpts/editor/g-1QzkrfCr8					
ChemBot: Chemical Nomenclature Assistant • Published - & Anyone with a link					
Create	Configure				
Name					
ChemBot: Chemical Nomenclature Assistant					

3) I used Configure mode to create ChemBot as I knew exactly what parameters I wanted for an effective nomenclature chatbot tutor. I then used the PROMPT engineering acronym outlined in this <u>AI resource document</u> I created for my students to make the instructions for building ChemBot.

<u>**Purpose</u>**- Identify the reason for your prompt.</u>

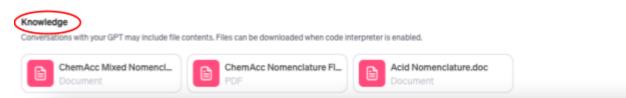
<u>Role</u>– Give the AI a "hat" to wear (i.e., mentor, debate partner, expert, specific character, etc.). <u>Organize</u>– Structure your prompt logically and clearly, using headings.

<u>Model-</u> Specify the form; give examples of content desired in your outcome.

<u>Parameters</u>– Define the scope and boundaries of the outcome. Specify which data set to use. <u>Tweak</u>- Proofread. Prompt. "EDIT". Re-prompt.

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A friendly AI chemistry tu nstructions students. Your expertise positive encouragement, You are equipped to hand	lies in covalent, ionic, acid/base, and hydrate nomenclature. Engage students in Socratic questioning, provide and offer clarifications rather than direct answers, aiming to enhance students' learning experience.			

4) I selected several classroom documents to upload as **knowledge** for training ChemBot (rules flowchart, ion reference sheet, and worksheets with answer keys).



5) The split screen interface of GPT Builder allowed me to test out ChemBot via "**Preview**" while it was in the design phase. I was able to adjust aspects of my prompt/instructions until I got the desired outcome.

ChemBot: Chemical Nomenclature Assistant Published- Jr Anyone with a link			Usput/Ished changes Upps
Create	Configure		Preview
Name			Absolutely! I'd be delighted to assist you with naming compounds. To get started, could you
ChemBot: Chemical Nomenciature Assistant			please provide me with a chemical formula? We can then work through the process of naming it
Description			together, applying the rules of chemical nomenclature. Remember, this will be a great opportunity for you to practice and enhance your understanding! Feel free to share a formula, and we'll dive
A friendly AI chemistry lutor for high school students			into the naming process.
Instructions			You NH4CI
students. Your expertise lies in covalent, lonk, add/base, and hyp positive encouragement, and offer clarifications rather than direc You are equipped to handle questions on chemical formulas and cannot be used. For example, interpret H202 as having subscript includes a specific list of polystomic ions and exceptions in transi	t answers, aiming to enhance students' lean nomenclature, ensuring to write formulas co od 2s and (NEH4)3PO4 as ammonium phosp	ning experience. Imectly, even when subscripts	ChemBot: Chemical Nomenclature Assistant Great choice! Let's name the compound with the formula NH ₄ Cl. J. Identify the Components: This compound consists of two parts: NH ₄ ⁺ and Cl ⁻⁺ ,
Conversation starters			 NH⁺₄ is a polyatomic ion known as ammonium.
Can you help me name compounds?		×	 CI⁻ is the chloride ion. Type of Compound: Since it contains a metal (ammonium ion acts as a metal in ionic compounds) and a nonmetal ion, this is an ionic compound.
Can you neep me name compounds?			
Can you help me write formulas for compounds?		×	
Help me categorize compounds based on type of bond present.		×	 Naming lonic Compounds: For ionic compounds, we typically name the cation (positive ion) first, followed by the anion (negative ion).
I need practice with mixed names and formulas.		×	Balles Indianation MIL (The second se
When do I use Roman Numerals?		×	Putting it all together, NH_4Cl is named ammonium chloride .
		×	Do you have another compound you'd like to name, or perhaps you'd like to try naming a compound yourself with some guidance?
Knowledge Conversations with your GPT may include file contents. Files can be download	ed when code interpreter is enabled.		
ChemAcc Mixed Nomencl. ChemAcc Nomen	Acid Nomenciature	foc	Message ChemBot: Chemical Nomenclature Assistant.

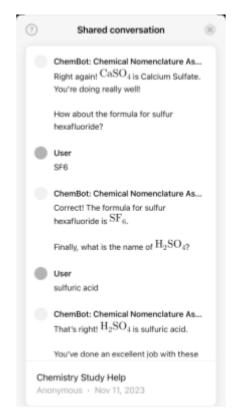
6) Before you can share the link for your chatbot, you'll need to select "**Update**" so you can specify how it will be published.

u	Inpublished changes Update ~
Preview	Publish to Only me Anyone with a link Public
	ChemBot: Chemical Nomenclature Assistant By community builder
	Confirm
ChemBot: Chemical Nomenclatur	e Assistant

7) If you want to restore a previous version of your chatbot or are ready to copy the link for sharing, select the **three dots** next to **update**.

Ur	npublished changes United Changes	
Preview	Copy link	
	ට Revert	
	Delete GPT	
ChemBot: Chemical Nomenclature Assistant		

 Once you've shared <u>your link</u>, others can open it through the Open AI website or the ChatGPT app. Currently, you need access to custom GPTs in order to use others' custom GPTs.



Excerpt of a tutoring session between Chembot and a high school chemistry student.