

5 Keywords for this session

Supplement Your Expertise
Differentiate Instruction
Personalize Learning
Streamline Tasks
Empower Educators



3

slido

Please download and install the Slido app on all computers you use



How often have you used
ChatGPT for education-related
purposes?

① Start presenting to display the poll results on this slide.

4



A peek
behind the
curtain!

ChatGPT for Educators

You are an expert in teacher professional development and a nationally-recognized education trainer. I am conducting a professional development session for teachers on the use of ChatGPT to transform teaching and improve student achievement. About 25 people will be in the training, representing grades Kindergarten through high school.

Please **provide the script for a 5-minute opening remark** that I can present to the teachers.



5



A peek
behind the
curtain!


ChatGPT for Educators

I am going to give you a sample speech to introduce a training session for teachers on ChatGPT. From this script, **pull out 5 keywords** to remember that provide a summary or overview that will help frame the session and provide context for teachers thoughts during the session.

Here is the script: [text pasted here]




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ChatGPT for Educators

A peek behind the curtain!

Create an image that shows a teacher using chatgpt. Landscape ratio, largest image size



7




ChatGPT for Educators

A peek behind the curtain!


Create a word cloud of words about education and ChatGPT. Use a variety of colors for the words.

Make it landscape ratio, high image quality




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ChatGPT for Educators

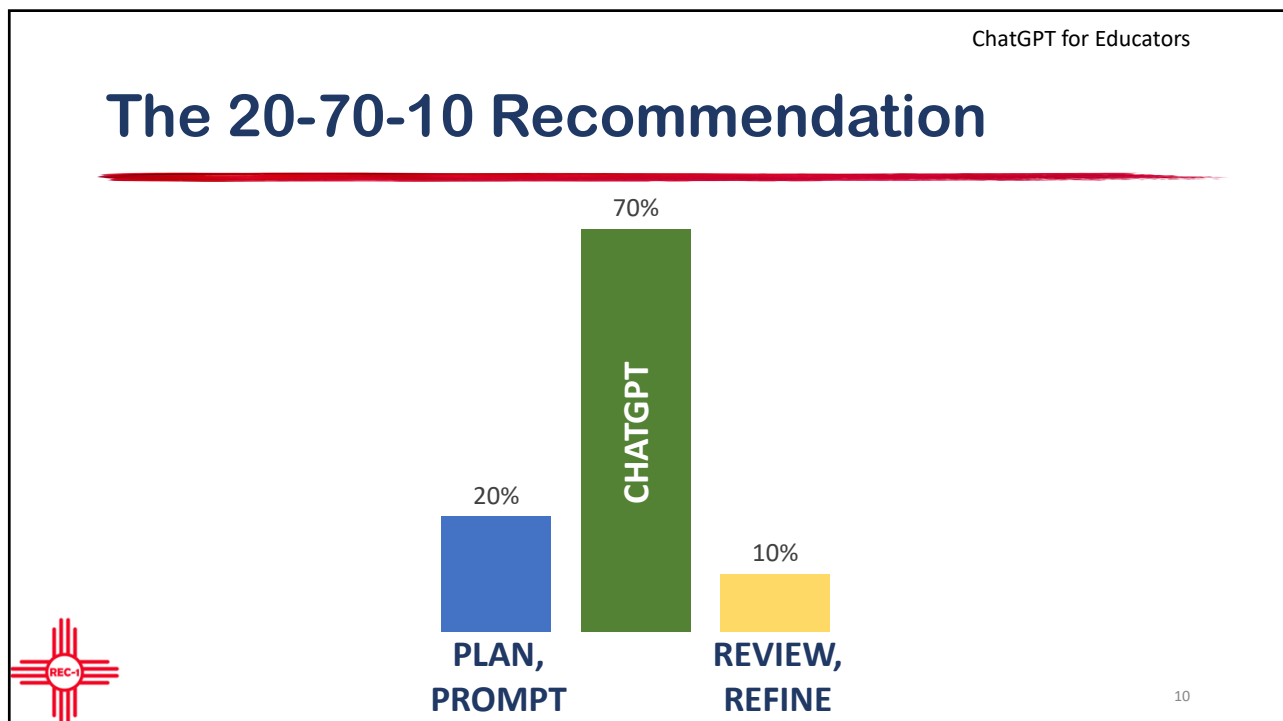


A peek behind the curtain!

Prepare a Likert-type question that I can ask workshop participants at the beginning of a workshop to ask about their prior experience with ChatGPT



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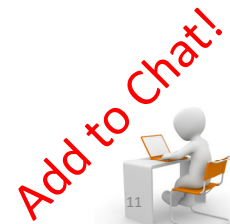


Let's go!

Just to try...

Think of one concept or skill you want your students to learn. Ask ChatGPT how to teach that skill.

Put your prompt in the chat.



Getting what you want from ChatGPT

3 Key Concepts

Be Clear

Be Specific

Explain Like a Teacher



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And, of course...

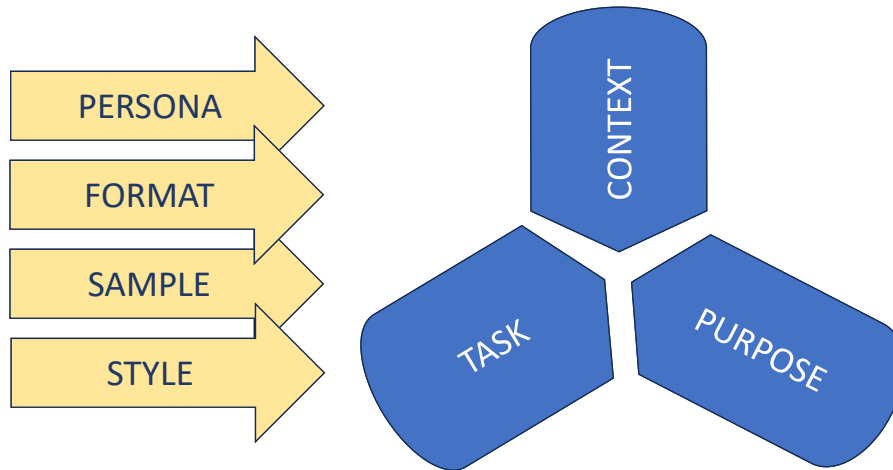
Don't assume it can or can't do something.

Just ask for what you want!



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Getting what you want from ChatGPT



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Weak vs. strong prompts

Weak:

Explain photosynthesis

Strong:

As a middle school biology teacher, explain photosynthesis in a way that includes real-world examples and is easy for 8th grade students to understand



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Weak vs. strong prompts

Weak:

Write a lesson plan for English Language Arts

Strong:

I want my 10th grade English Language Arts students to master identifying themes in text, using the book "1984". Write a lesson plan I can use, and identify the content standards. Student learning activities should be interactive and cooperative. Include a rubric assessment based on a 5-point scale. The lesson should take no more than 3 days.



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Weak vs. strong prompts

Weak:

Help me improve student behavior

Strong:

You are a behavioral specialist. I have 3 students in my class who are always causing trouble by making noise, distracting other students, and talking back. What strategies can I use to help them improve their behavior?



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For example...

You are an instructional specialist with 20 years experience with teaching and curriculum design. I want to start using Project based learning in my classroom. Please **provide a lesson plan** that incorporates project based learning concepts. The topic is Newton's laws of motion. The plan should be appropriate for 9th grade students in a classroom of 25 students. *Ask me questions if you need any additional information to prepare a great response.*

Provide a rubric to assess the final presentation. Include a grading guide for an A grade, B grade, etc.

What are **strategies** that students can use to score a 4 on each rubric category?



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Give it a try!

Write Write 3 prompts based on topics you teach.

Test Try them in ChatGPT.

Select Choose the prompt that gave you the most useful result.

Share Copy it to chat.



Review and revise

One step at a time, then...

- Ask for clarification
- Ask for additional information
- Ask for revision
- Ask for next steps
- What's next?

Try Again



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One more technique

Use ChatGPT to Write Prompts!

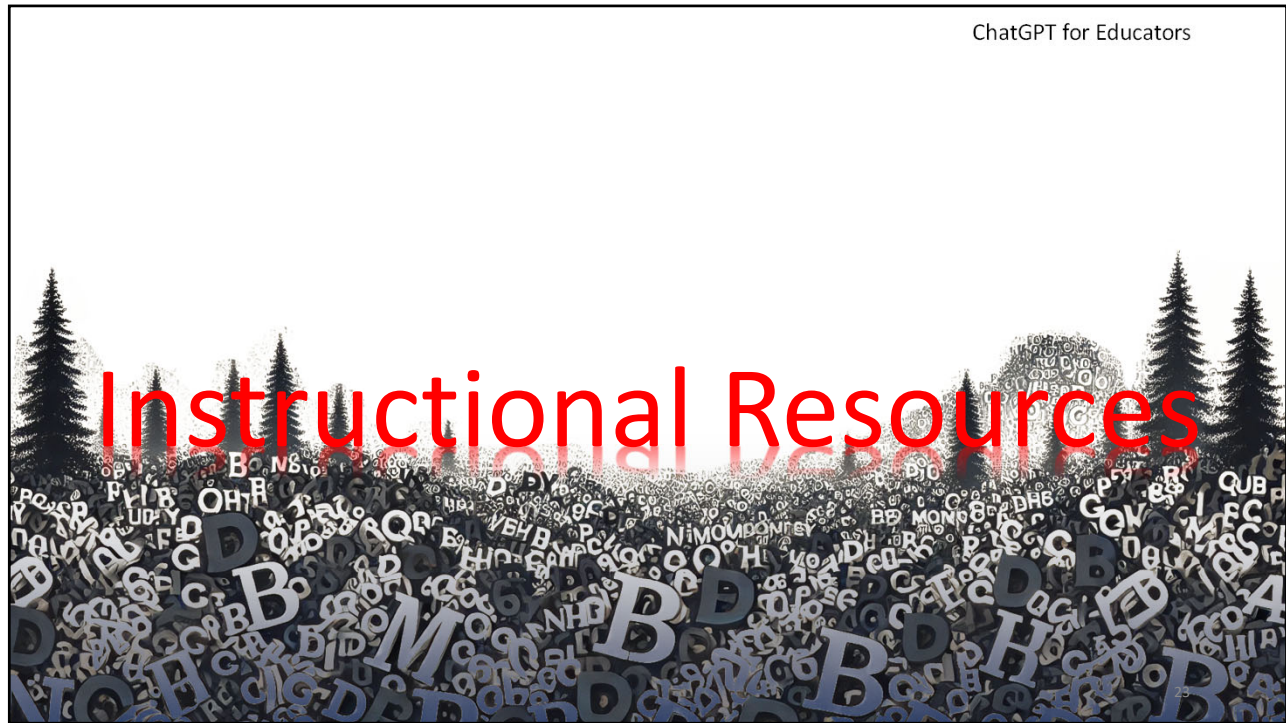
I need a lesson plan for my 12th grade students. **Ask me questions** for information you need to prepare a great lesson plan.

After I answer, **keep asking more questions** until I respond "Ready" or until you have sufficient information.

Then **create the lesson plan.**



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A few resource types

text summaries, essay topics, simplified explanations, worksheets, rubric assessments, translations, source citations, step-by-step instructions, study ideas, learning plans, quizzes, games, activities, practice tests, outlines, key ideas, vocabulary sheets, learning centers, customized activities, lexile modifications, comprehension questions, checklists, discussion prompts, word problems, flashcards, study guides, cloze tests, poster design, report templates, essay outlines, pre-reading vocabulary, tip sheets, mind maps, data visualization, differentiated activities, peer review guide, timeline, Socratic questions, extension ideas



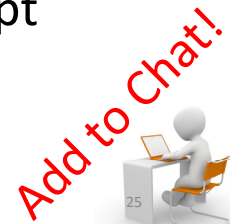
Give it a try!

Think What is one student resource you created recently?

Prompt Write a prompt to create that resource.

Try Try it out.

Share Add to chat: (Resource type) Prompt



How was it?

How would you rate the usefulness of the generated resource compared to your self-created resource??

Response Options:

- 1.Unusable
- 2.Inferior
- 3.About the same
- 4.Somewhat better
- 5.Vastly superior





A peek
behind the
curtain!

ChatGPT for Educators

ChatGPT as a thought partner: Re-Prompting

provide a Likert type question and response options for teachers to gauge the value of resources they create with ChatGPT.

rewrite this for teachers to compare the value of the generated instructional resource against their own self-created instructional resources

rewrite this. The question will be "How would you rate the usefulness of the generated resource compared to your self-created resource?"

Provide 5 possible answers



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ChatGPT for Educators

But what if...?

Add more information about...

Remove...

Reformat this as a...

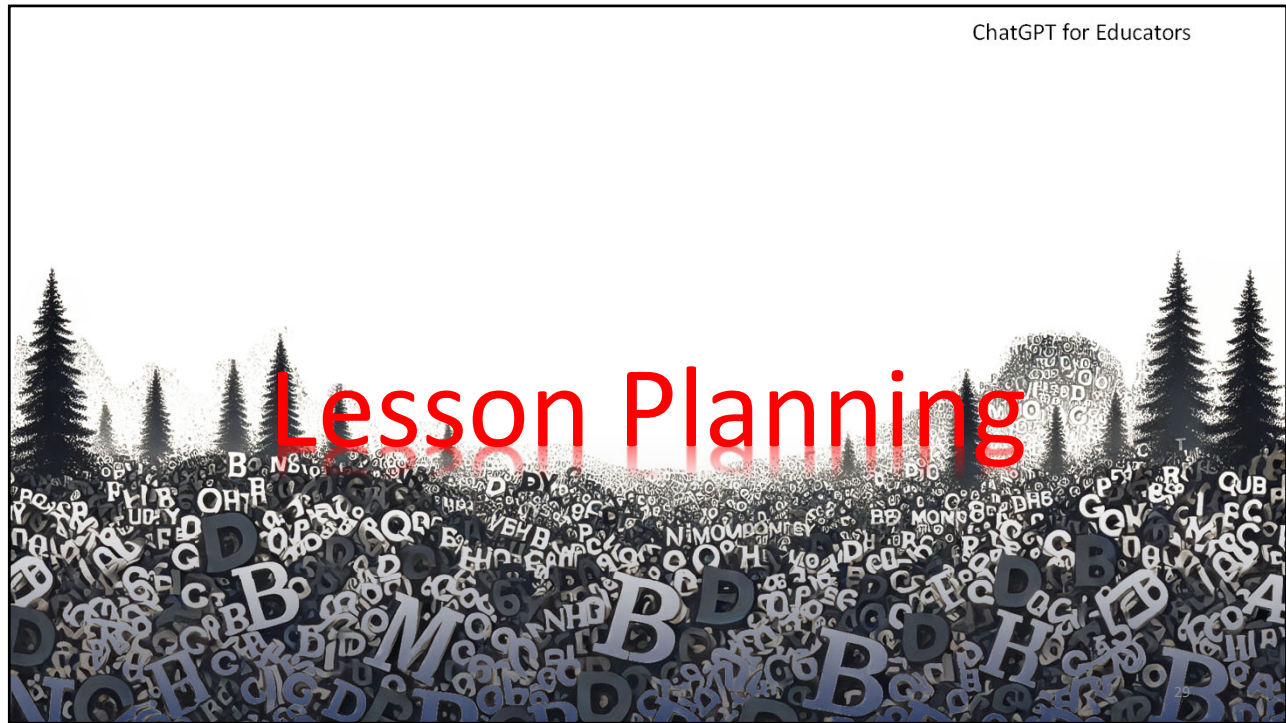
Limit this to...

Include a section on...

Try again.



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Lesson elements

Typical output

Title
 Learning objectives
 Materials
 Instructional activities
 Engagement techniques
 Assessment ideas

Ask for

Content standards
 Step-by-step instruction
 Resources
 Pedagogical approach
 Differentiation strategies



Prompt advice

Include:

Persona
 Instructional context
 Instructional focus, goal, content standards
 Task: Write a lesson plan for ...

- Components to include
 - Pedagogical approach
 - Differentiation
 - Length / constraints



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For example

You are a specialist in elementary education with 20 years of experience. I am teaching 5th grade students to do long division for the first time. Here are your tasks:

1. **Write a 30-minute lesson** plan to help me teach this skill. Include learning objectives, content standards, student activities, and assessment strategies. The activities should be cooperative and active, using physical objects to manipulate. Include strategies for differentiated instruction for students who are academically delayed and students who are quick learners.
2. **Provide resources** students can use to expand knowledge.
3. **Create 2 resources** that students can use as homework to review steps to long division and practice this skill.



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Strategies for Differentiated Instruction:

- **Visually Impaired Students:** Use large print or tactile materials (such as raised counters) for the manipulative activity.
- **Auditory Learners:** Provide verbal cues and explanations during the manipulative activity and
- **Advanced Learners:** Involve in more challenging problems

Guided Practice (10 minutes):

1. **Model the Process (Using Base-Ten Blocks):**
 - Write a new problem, such as $96 \div 4$, on the board.
 - Break down 96 into tens and ones (90 and 6). Use base-ten blocks to physically represent the number (9 tens and 6 ones).
 - Ask students to help divide the tens first (9 tens divided into 4 groups = 2 tens in each group).
 - Ask students to help divide the ones (6 ones divided into 4 groups = 1 one in each group).

Resources for Exploring:

1. **Khan Academy**
<https://www.khanacademy.com/math/multi-digit-multiplication-and-division/a/multi-digit-division/a/multi-digit-division>
2. **Math is Fun**
<https://www.mathisfun.com/division/>

Homework Resources:

Homework 1: Step 1:

1. Review the steps for dividing.
 - Divide
 - Multiply
 - Subtract
 - Bring down
2. Complete the problems.
 - $72 \div 4$
 - $96 \div 4$
 - $123 \div 3$

Homework 2: Practice:

1. Solve the following problems.
 - $144 \div 4$
 - $256 \div 4$
 - $324 \div 4$
2. Challenge Question: $567 \div 4$

Both homework sheets are available at <https://www.mathisfun.com/division/>

Differentiated Instruction:

1. **For Struggling Learners:**
 - Provide additional support and scaffolding.
 - Use manipulatives to help understand the concept.
2. **For Quick Learners:**
 - Challenge them with more complex problems.
 - Encourage them to explain their reasoning.

Independent Practice:

- Give each student a worksheet with problems like $96 \div 4$.
- Quickly check answers.
- Assess understanding and explain any errors.

Conclusion (2 minutes):

- Briefly review the key concepts.

30-Minute Lesson Plan for Teaching Long Division
Grade Level: 5th Grade
Duration: 30 minutes

Learning Objectives:

- Students will understand the concept of long division and its application.
- Students will be able to divide multi-digit numbers by single-digit divisors using the long division algorithm.
- Students will work cooperatively to solve division problems, using manipulatives to demonstrate understanding.
- Differentiated instruction will support all learners, from those who need additional support to those who are quick to grasp the concept.

Content Standards:

- **Common Core State Standards for Mathematics:** **CCSS.MATH.CONTENT.5.NB.B.6** - Find whole-number quotients of whole numbers with up to four-digit dividends and two-digit divisors, using strategies based on place value, properties of operations, and/or the relationship between multiplication and division.

Materials:

- Base-ten blocks or counters (manipulatives)
- Large chart paper or whiteboard
- Markers
- Division worksheets (adapted for various skill levels)
- Small dry-erase boards for individual practice
- Homework sheets for review and practice

Lesson Structure:

Introduction (5 minutes):

1. **Activate Prior Knowledge:** Begin by asking students about their understanding of division. Briefly review basic division facts (e.g., $12 \div 3 = 4$). Discuss how multiplication and division are related.



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For example, part 2

Get more, get better

Provide a detailed outline that I can use for the lesson introduction section, with examples and steps.

Modify this lesson for students who are English Language Learners and developmentally delayed and who need additional hands-on practice with simpler problems.



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Give it a try!

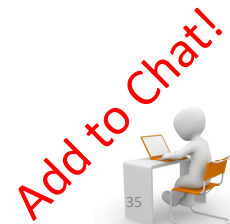
Think What is the hardest topic or skill to teach (i.e., hardest for students to learn)?

Prompt Write a prompt to create a lesson plan.

Try Try it out.

Share Add prompt to chat.

Rate Usefulness from 0 to 10



BREAK



slido

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What is one "take-away" idea so far?

① Start presenting to display the poll results on this slide.

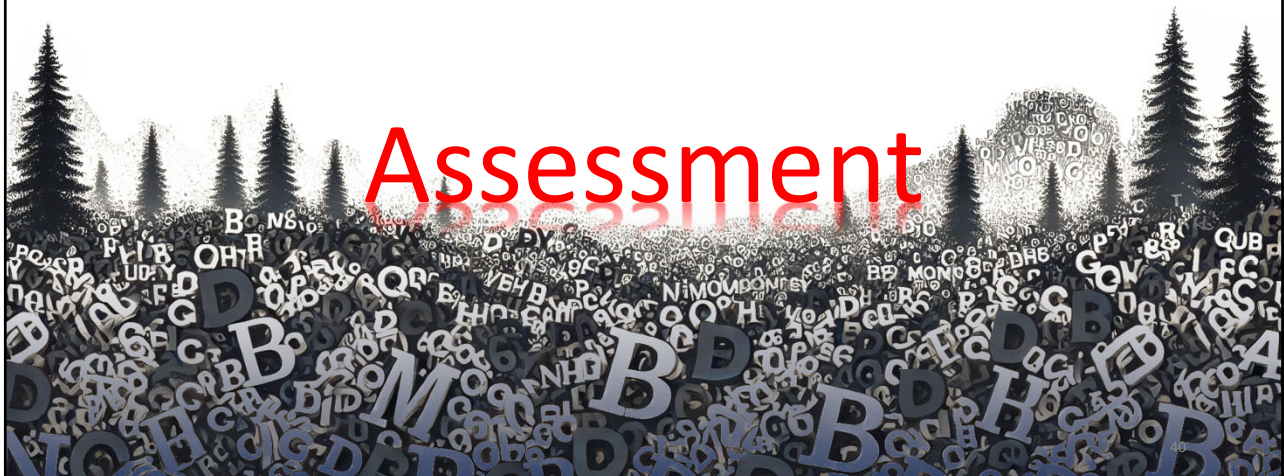
38

My summary so far

Ask for what you want
Give more to get better results
Explain like a teacher
Be specific
Be creative



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Grade papers (please!)

Sample steps

1. Create / review a rubric
 2. Apply the rubric to writing
 3. Score individual components
 4. Explain scores
 5. Create overall score
 6. Offer feedback



41

Like this...

Carefully **review this writing rubric**. Let me know if you understand how to grade students' writing based on this rubric, and then I will provide you with a sample of student writing.

1. **Evaluate** the writing sample below based on the rubric.
2. **Provide scores** for each category and explain why you gave that score.
3. **Provide an overall score** based on a 100-point scale. Assume that each category is equally weighted.
4. For every component that is less than the top score, **provide specific strategies** the student can use to attain the top score.

Writing sample: [paste text here]



Show: Writing Rubric Evaluation Guidance discussion

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So many ways to assess

Create the cloze test for vocabulary about the Mayan culture with 10 blanks where words are missing. Provide the list of words underneath the cloze test.

Generate a multiple choice test for verb tenses. The test should have 10 sentences. In each sentence, have a blank for the verb. Add possible choices under each sentence, with only one correct choice.

Think it – Describe it – Ask for it



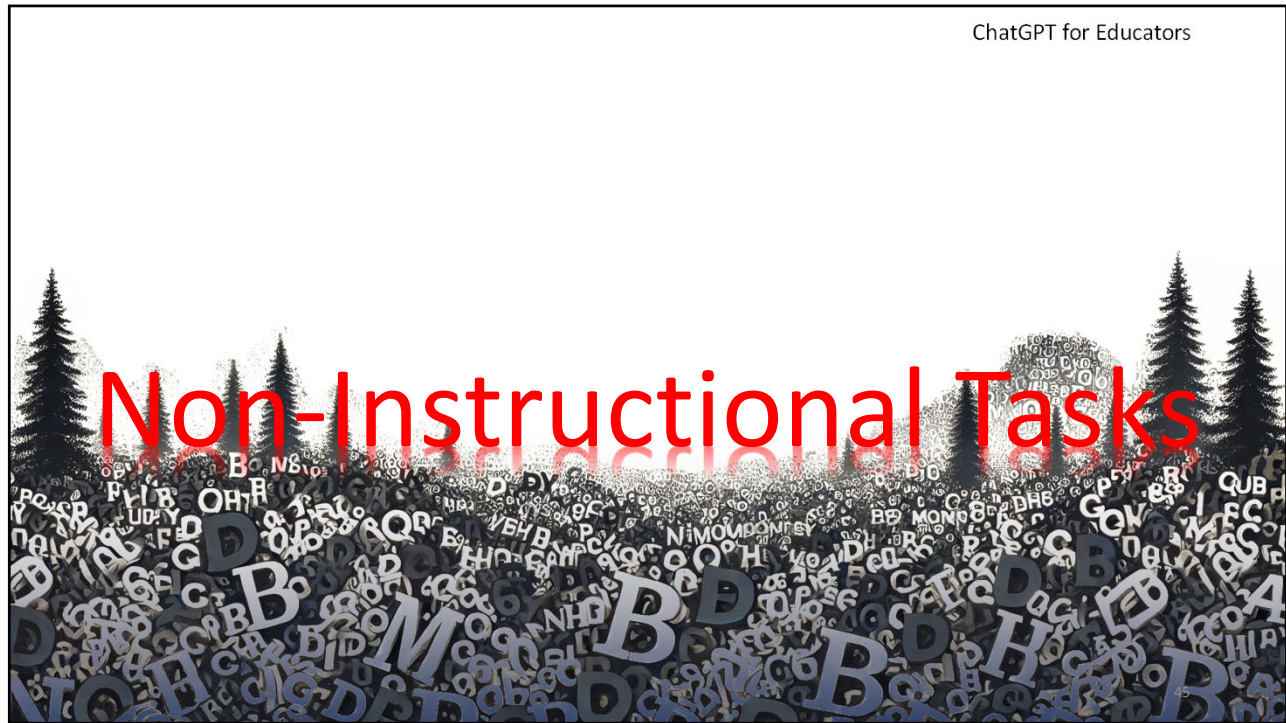
43

Give it a try!

In the chat, post one type of assessment you use.

I'll select one (or more) to try!





Give it a try!

Create a meeting agenda
 Write letters to parents
 Write an autobiography
 Make a presentation script
 Write a blog post
 Create behavioral plans
 Prepare parent report

INCLUDE

Context
Purpose
Task

OPTIONAL

Persona
Format
Sample
Style



Improve written communication

It does...

Outline
Revise
Shorten
Make clear
Just write it for me

You provide...

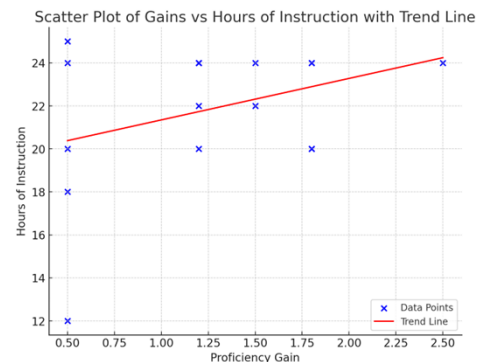
Text
Context
Audience
Purpose
Structure
Topics
Tone
Actions



47

Analyze data

What do you want to know?
Ask and provide the data
(it even creates graphs!)



The correlation between proficiency gains (GAIN) and hours of instruction (HOURS) in this dataset is approximately 0.35, indicating a weak positive relationship. This suggests that as the number of instructional hours increases, there is a slight tendency for proficiency gains to increase as well, although the relationship is not very strong.



48

Oopses occur

It seems there was an issue with the data format you provided. Specifically, some rows have missing values, which resulted in an error. I'll clean up the data and proceed with the calculation and graph.

Let me fix this.



49

Find students who need help

Here are student scores for Grammar on their beginning of year test, middle of year test, and end of year test.

1. **Plot** each student's progress over time.
2. **Identify the students** who seems to need most help, and tell me why you selected those students.
3. **Plot** the scores for just those students

Here are the data:

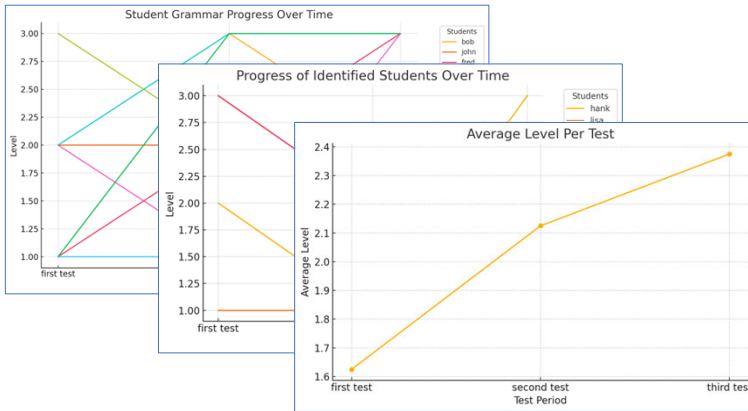
[pasted data table]

Now, using the same data, **determine the average** level per test and **plot those averages**.



50

Understanding progress



Considering the plot of average level per test, how am I doing as a grammar teacher overall?



YouTube

<https://www.youtube.com/watch?v=LMCZvGesRz8>

I will provide you the transcript of a video about Project Based Learning. **Summarize** the video, then **provide key points and action steps** I can do to implement this topic. Transcript: [pasted transcript]



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Summarize documents

Steps

Upload
Prompt
Read
Learn

Carefully **review** this document. **Provide** a summary of the research study. Then **list** key results with detail, and **provide** the research conclusions.



54

Response depth

Explain to me (Try tectonic plates)

...in simple terms

...as if speaking to a 5-year-old (my favorite)

...thoroughly

...as if a college professor

provide a real-world example and an analogy



55

Write SMART goals

*A SMART goal means a goal that is Student centered, Measurable, Attainable, Relevant, and Time bound. If you understand SMART goals, **tell me** before I give you more information.*

I am a teacher of 15 kindergarten students. According to their test scores on the iStation assessment, only 7% of students are proficient in phonemic awareness. **Write a SMART goal** that I can use in my 90-day growth plan to reach 44% proficiency. Then **provide 2 or 3 sample instructional strategies** that I can use.

Repeat this task for Vocabulary Development. Student proficiency should increase from 12% to 50%.



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Learning big concepts

I am a 2nd grade teacher, and I want to know the basic components of LETRS. **List those components and provide a brief description of each. Then provide 3 age-appropriate activities** that I can use to teach each component.

Think What's a big topic for you?

Write Create a prompt to learn that topic

Share Post your prompt in the chat



Add to Chat!



Mind maps

Purposes

What to know?

What to learn?

What to teach?

Choose a topic: add to chat



Please create a detailed mind map for studying and understanding the Mayan culture and history.

Add to Chat!



Teacher learning plans

Let ChatGPT be your guide

Who are you?
 What to learn?
 Why learn / purpose
 What to do?
 How often?

I teach 5th grade students. I want to improve my classroom climate so all students feel like they belong and are safe. I want to reduce the number and frequency of disruptive events. **Create a 5-week plan** I can use to learn how to improve the climate. Each week should have a new strategy to learn and implement. Be specific about what I will learn and how I can use what I learn.

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Improve written communications

A short list

Grammar and syntax checks
 Style and tone adjustments
 Clarifying complex ideas
 Improving vocabulary
 Generating ideas and outlines
 Providing feedback
 Summarizing long texts
 Writing prompts

60





A peek
behind the
curtain!


What are 8 ways teachers can use ChatGPT to improve their own written communications?



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1. Customize How ChatGPT Responds



ChatGPT for Educators

Customize ChatGPT

Custom Instructions ⓘ

What would you like ChatGPT to know about you to provide better responses?

I'm David Bowman, the executive director of the Four Corners Regional Education Cooperative #1 (REC-1), an Education Service Agency in the Four Corners of New Mexico.

166/1500

How would you like ChatGPT to respond?


##CODE##
when I ask for code, provide the most efficient code without explanation.

##VOICE##
In voice discussions, respond only with "ok" to let me know you

1408/1500

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2. Editing Your Prompts



ChatGPT for Educators


Carefully review how to grade provide you w

Edit message

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ChatGPT for Educators

3. Manage Your Memory



Settings

- ⚙️ General
- 👤 Personalization
- 🗣️ Speech
- 🔒 Data controls
- 👤 Builder profile
- 🔗 Connected apps
- 🔒 Security

Custom instructions

Memory

ChatGPT will become more helpful as you chat, picking up preferences to tailor its responses to you. [Learn more](#)

To understand what ChatGPT remembers or teach it something with it:

- "Remember that I like concise responses."
- "I just got a puppy!"
- "What do you remember about me?"
- "Where did we leave off on my last project?"


Manage

Clear ChatGPT's memory

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ChatGPT for Educators

4. Archive Your Chats



Write Goals - PBL sample ...





ChatGPT for Instruction Enhancement

Clara's Essay Evaluation

PD on prompt engineering

Intro to AI for teachers

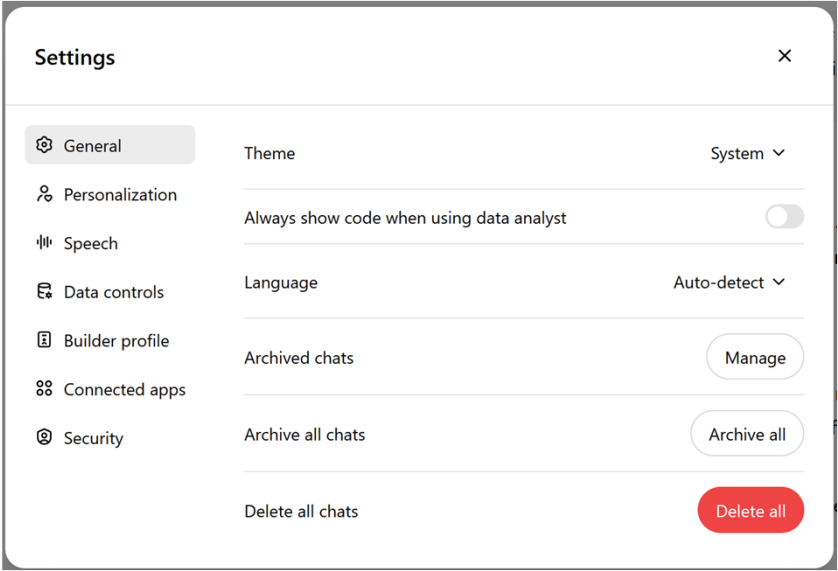
Previous 30 Days

-  Share
-  Rename
-  Archive
-  Delete

66

ChatGPT for Educators

4. Archive Your Chats



The screenshot shows the 'Settings' menu for ChatGPT. The 'Builder profile' section is expanded, showing options for 'Archived chats', 'Archive all chats', and 'Delete all chats'. The 'Delete all chats' button is highlighted in red.

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ChatGPT for Educators

5. Create Your Own Writing Style

Review the following writing sample and then identify the characteristics of the writing, including

- Style
- Tone
- Sentence structure
- Paragraph structure
- Organization
- Word choice
- Reading level

Here is the writing sample: [pasted long text]

Save these writing characteristics as "Ruskin Style". Use these writing style characteristics whenever I include [Ruskin Style]. Let me know that you understand.

68

Explore and Share

slido

Please download and install the Slido app on all computers you use



What's one thing you will try with ChatGPT?

① Start presenting to display the poll results on this slide.

70

