ChatGPT for educators:

Practical approaches to lesson planning

A free charity webinar by Tutor Trust | Striving for equity in education | Championing the North



THE TUTOR TRUST A bit about us



- lacksquare
- Programme (NTP) since 2020.
- parents or carers.



• Award-winning charity established in 2011, having since worked with some 30,000 young people.

Successfully supports primary and secondary schools in Greater Manchester, Merseyside, and West Yorkshire.

• Aims to help young people reach their potential.

Delivery partner of Government's National Tutoring

• Provides subsidised tutoring to schools, at no cost to



- Strong advocacy among testing group
- Teacher & tutors saved time
- Lower effort required to prepare lessons
- Improved lessons & higher quality resources

Teaching with ChatGPT

The Hg Foundation

















- Introduce practical AI tools for better lesson planning.
- Show how AI saves time without compromising quality in planning.
- Share AI applications that simplify processes and improve results for educators.

"Al in education is not replacing teachers, it's amplifying their ability to meet the learning needs of students." - Paul Daugherty



Outline- 40 mins

- A word of caution
- **Practical application 1:** Custom instructions & P.R.E.P.A.R.E
- **Practical application 2:** Adaptive instruction
- **Practical application 3:** Assessment for Learning
- Your turn and Q&A





 Check output carefully for inaccuracies and bias Break requests down into simple questions

Ask for more options than you need

Enter sensitive or personal data

Rely on ChatGPT for factual information

Use ChatGPT to do calculations

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Custon instructions & P.R.E.P.A.R.E

- Tailor guidance for specific responses.
- Includes tone, style, and topic focus.
- Personalise interactions for relevance.
- Enhance quality and engagement.

Example with no CI Example WITH CI Comment in the chat any custom instructions that have worked well for you.

Anonymous



I am teaching a Year 7 English lesson about a Midsummer Night's Dream and metaphors. I need a learning objective for this lesson.



Sure, here's a learning objective for your Year 7 English lesson:

"By the end of the lesson, students will be able to identify metaphors in Shakespeare's 'A Midsummer Night's Dream,' analyze their meaning within the context of the play, and explain how these metaphors contribute to character development and thematic exploration."



ChatGPT

Sure! How about this learning objective:

"By the end of the lesson, students will be able to identify and explain metaphors in 'A Midsummer Night's Dream', demonstrating understanding of how Shakespeare uses figurative language to convey deeper meanings in the play."







PROMPT

Introduce what you want

ROLE Give it a role

EXPLICIT Be explicit with your instructions

PARAMETERS

Set the parameters of the answer

ASK Ask it to ask you follow up questions



EVALUATE

Evaluate the strength of the response

DETERMINE

Determine accuracy & corroborate

IDENTIFY

Identify any bias & misconceptions

TRANSFORM

Update content



leader

RATE

Ask it to rate its response

EMOTIONS

Appeal to its emotions

Durham University

Example WITH PREPARE

I talk about AI & education | Helped 42k+ embrace AI | Best selling author | Get The AI Classroom now on Amazon | Former educational

Prompt



Anonymous

- Explain the process of photosynthesis and its importance in plant growth. Use simple language suitable for 14-year-old students in the UK.
- R You are a passionate teacher explaining the concept of ecosystems to a group of curious 14-year-old students in the UK.
- E Break down the process of photosynthesis, step by step. Include examples and ensure the explanation is suitable for 14-year-old students studying Biology in the UK.
- P Keep the response within 300 words, maintain a neutral tone suitable for educational content, and use language appropriate for 14-year-old students in the UK.
- A Ask me questions in bullet points to enhance your understanding of the topic.
- R On a scale of 1 to 10, how clear do you think your explanation is? Please highlight specific phrases or examples that contribute to the clarity or areas that may need improvement.
- E Ensure that you connect with the reader in a human way.



Response



6



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What do you already know about plants and how they grow?

- Plants need sunlight, water, and air to survive.
- They use something called photosynthesis to make their food.

So, let's dive into photosynthesis! Imagine you're a plant soaking up the sun. Here's what happens next:

1. Sunlight: Plants have these special parts called leaves. Think of them as tiny solar panels. When sunlight hits these panels, something amazing starts to happen.

2. Carbon Dioxide (CO2): Just like we need oxygen to breathe, plants need carbon dioxide to make food. They get this from the air around them.

3. Water: Plants also slurp up water through their roots. This water travels all the way up to the leaves.

4. Chlorophyll: Inside the leaves, there's a green pigment called chlorophyll. It's like the chef in a kitchen, directing all the action.

5. Mixing It Up: The sunlight, carbon dioxide, and water all come together inside the leaf. This is where the magic of photosynthesis happens!

Making Food: Using the energy from sunlight, the plant turns carbon dioxide and water into glucose, which is a type of sugar. This is like the plant's version of a delicious meal.

7. Releasing Oxygen: Here's a cool part - while the plant is making food, it also releases oxygen as a by-product. So, not only do plants feed themselves, but they also give us the oxygen we need to breathe!

Have a think about the young people you work with:

- How many unique needs or interests do you have to adapt your lessons for each week?
- How long does this take? Is it feasible?





Al is a **tool** to **streamline** the time consuming elements of lesson planning, using **your knowledge and experience**, to create better lesson plans, quicker.







Custom instructions

Detailed, structured prompts



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- Specific info
- Simple language
- Be as clear as possible
- Break things down
- Be conscious of safeguarding

You

I am working with a new student. They have spent more than a year without consistent education. They are in year 10/11 and have no current working level. I have 1.25 hours to work with them and then I have been asked to set 45minutes of homework, this is to cover both maths and English. I want to start the session with my own icebreaker activity that should take 20-30minutes. I would like you to create an outline lesson plan for the rest of the time, covering elements of the Functional Skills Maths and English specification and incorporating the student's interest in business studies.

Com Pron

Prompt

Prompt Type	Description	Prompt Example
Completion Prompts	Involve providing an incomplete sentence and asking the AI model to generate a coherent continuation.	"Complete this sentence: Prompt engineering is"
Question Prompts	Assume asking a specific question prompting the AI model to generate a related response.	"What are the key principles and techniques used in prompt engineering to optimize the output of AI models?"
Instruction Prompts	Imply providing explicit instructions for the AI model to follow, specifying the desired outcome.	"Write a step-by-step guide on effectively employing prompt engineering strategies when working with AI models."
Comparison Prompts	Make the AI model compare different elements, generating insights based on the provided criteria.	"Compare the effectiveness of prompt engineering in enhancing the performance of AI models versus using unstructured prompts."
Creative Prompts	Encourage the AI model to generate innovative ideas, stories, or artistic outputs.	"Imagine a future where prompt engineering has advanced to its full potential. Write a short story describing how prompt engineering revolutionized the field of AI and other industries."
Translation Prompts	Involve providing text in one language and instructing the AI model to translate it into another.	"Translate the term 'prompt engineering' into French."
Summarization Prompts	Ask the AI model to condense a given text or information into a concise summary.	"Summarize the benefits and challenges associated with prompt engineering in three concise points."
Dialogue Prompts	Instruct the AI model to generate responses from different perspectives or characters.	"Generate a conversation between two AI researchers discussing the significance of prompt engineering in improving the reliability and interpretability of AI models."

https://www.techopedia.com/how-to/how-to-write-ai-prompts

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Creating a lesson plan for your student, particularly considering their interest in business studies, is a great way to engage them while covering the essential elements of the Functional Skills Maths and English specifications. Since you have 1.25 hours for the session (minus the icebreaker activity), this leaves approximately 55-65 minutes for teaching, and you'll also be setting 45 minutes of homework.

Here's an outline of a lesson plan tailored to your needs:

Lesson Plan Outline

Part 1: Functional Skills English (Approximately 30-35 minutes)

1. Introduction to Business-Related Vocabulary (10 minutes)

- Introduce key business terms (e.g., profit, loss, investment, marketing).
- Discuss the meaning of each term and use them in sentences.

2. Reading Comprehension (10 minutes)

- Provide a short article or case study related to a business topic.
- Have the student read the passage and answer comprehension questions focusing on main ideas, details, and vocabulary.

3. Writing Exercise (10-15 minutes)

- Prompt: Write a short paragraph on "The importance of marketing in business."
- Focus on sentence structure, spelling, and grammar.

Response

Part 2: Functional Skills Maths (Approximately 25-30 minutes)

1. Basic Financial Mathematics (10 minutes)

Problem-Solving Activity (15-20 minutes)

- marketing).

Homework (45 minutes)

Maths Homework (20-25 minutes)

Additional Tips

This lesson plan aims to cover basic elements of Functional Skills Maths and English, with a focus on business studies to keep the student engaged and motivated. Remember to be flexible and adapt the plan based on the student's responses and needs during the session. .1.

Introduction to concepts like percentages, profit margins, and simple interest.

 Practical examples: calculating the profit margin of a product, understanding simple interest in a business loan.

Present a real-world business problem (e.g., calculating costs for a start-up, budgeting for

Guide the student through solving the problem using maths skills.

1. English Homework (20-25 minutes)

Reading: Assign a business news article or case study for reading.

Writing: Summarise the article in a few sentences, focusing on key points.

 Practical Exercises: Provide a worksheet with problems on percentages, basic algebra, and simple interest calculations related to business scenarios.

 Differentiation: Adjust the difficulty of tasks based on the student's responses and understanding. Engagement: Relate topics to the business world, which is their area of interest. Feedback: Offer constructive feedback throughout the session, especially after each activity.

Feedback: Multi-turn conversations

Iterative process



Can you regenerate the plan with longer timings for each task. For English build the reading and writing into the same task, finishing with a plan for writing an answer and writing the answer out as an extension. Also generate example questions for each section.



Naming chats

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SATS revision planning	🖻	
GCSE Maths planning		
GCSE English planning		





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Assessment for Learning

Anonymous

I am teaching Year 7 students about atoms as part of Year 7 Chemistry. What do they need to know about this, according to the National Curriculum?



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According to the UK National Curriculum for Key Stage 3 Science, Year 7 students should understand:

- The particle model: Everything is made of particles.
- Atoms as the basic unit of an element.
- Elements as substances containing only one type of atom.
- Differences between atoms, elements, and compounds.

These topics serve as an introduction to atoms and set the foundation for further study in chemistry.

Example: Year 7 Chemistry







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Assessment for Learning

Anonymous

What questions can I ask to test understanding?



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To assess Year 7 students' understanding of atoms according to the National Curriculum, you could ask the following questions:

- 1. What is an atom?
- 2. What is an element?
- 3. How is an element different from a compound?
- 4. Can you name an example of an element and a compound?
- 5. What does the particle model say about the structure of matter?
- 6. How many types of atoms are present in an element?
- 7. What is the basic unit that makes up an element?
- 8. Are all particles the same? Explain.
- 9. Is water an element or a compound? Why?
- 10. What are the particles in a solid like compared to a liquid or gas?

These questions align with the Early Career Framework by focusing on core content and facilitating subject-specific pedagogy





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Assessment for Learning

Extend: Copy and paste a section of your lesson plan to Chat GPT and ask it to generate 2 ways to assess what the pupils have learned from that activity.

Main (b) (50-759

Guide and scaffold the pupils' practice

Paired and group activities

(We do...)

Example 1: Sunlight drifted in through the broken windows, dust dances in the shards of light and the smells of the rancid water filled his nostrils. He becomes aware of the water surrounding his feets and she looked for a place to take rest after the long journey away from the bad guvs. He eventually found a rock adorned in deep green ivy and slimy to the touch. He scrambled atop and crouched, hunched against the biting wind and thinking sternly about his next move.







Look at the examples and analyse them looking at positives and negatives. Use the mark scheme and peer/self assessment document to support this. Students to plan own response including vocab etc.

On the PowerPoint, the image will be shown again, along with some example pieces of writing for students to read and consider. Looking at any errors and evaluating them.

Example 2: The biting wind had followed him into the abandoned warehouse, his only company through this tiresome journey to a better life. His trainers squelched through the sodden ground as he picked his way between the puddles to a place of asylum where he would be able to survey his progress, and dwell on his mistakes.

The sunlight cut through the stillness of the stale air and jolted the young boy into a vivid memory; shards of light escaping through the smallest crack in the curtains of the memory of a box room he shared with Tex.





THE TUTOR TRUST Your turn and Q&A

- Custom instructions & P.R.E.P.A.R.E
- Adaptive instruction
- Assessment for Learning



What's next?

AI EDUCATOR.TOOLS

Q Search the AI Educator Tool Repository

Orienting	
Quizmixer	
QuizMixer.xyz is an advanced quiz generator powered.by AI and using videos	or documents,
Productivity Free	





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Or send this to a school leader who might be interested!



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