

# AI Chatbot for Teachers Cheat-Sheet

| 1. Identify the Educational Challenge           | 2. Fill in the blank Prompt Stems using SPICE<br><i>(Start with) As an expert teacher...</i>                                                                                                                                                                                                                   | 3. Follow Up Prompts to Generate Desired Resource                                                                                                                                                 |
|-------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Fostering Background Knowledge</b>           | Generate ideas to help students access and apply prior knowledge before starting a lesson on (concepts) in a (subject/grade level) class. I want students to link what they have learned to the new concepts.                                                                                                  | Develop a detailed activity guide that incorporates these ideas (refer to the output you like) into a [subject] lesson plan?"                                                                     |
| <b>Increasing Choice to Increase Engagement</b> | Show me various instructional strategies I can employ to offer students choice when learning [specific concept] for [grade level] [subject]?                                                                                                                                                                   | From the strategies you outlined for offering choice in learning [specific concept], create a detailed choice board with instructions for each option that I can immediately use in my classroom. |
| <b>Gamify Learning</b>                          | How can I gamify the topic of [specific topic] for [grade level] [subject] to improve retention, using tools like [type of simulations or games]. Describe in some detail several different options.                                                                                                           | Taking the game proposal you suggested for [specific topic], please expand it into a full lesson plan with objectives, rules, necessary materials, and evaluation methods                         |
| <b>Making Content Applicable</b>                | Please help me develop a project-based unit on [topic] for [grade level] [subject] that includes real-world applications such include detailed steps for a project involving [specific project focus], and methods to assess understanding. Generate at least 5 different project ideas for me to choose from. | From the project ideas you listed for [topic], flesh out one project in a comprehensive guide (identify the project you like) with steps, materials needed, and assessment rubrics?               |
| <b>Supporting Language Learning</b>             | "What are effective strategies and tools for supporting students during [subject] lessons on [topic], especially focusing on enhancing [specific language skills], and including a long-term plan with [type of assessments or activities]?"                                                                   | Based on the strategy you provided for enhancing [specific language skills], develop a complete lesson plan that includes detailed activities, resources, and a timeline?                         |

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|                                              |                                                                                                                                                                                                               |                                                                                                                                                                               |
| <b>Customizing Scaffolds and Supports</b>    | I need a detailed plan for creating tailored instructional scaffolds for teaching [topic] in [grade level] [subject], focusing on higher order thinking skills.                                               | Using the scaffold example you mentioned for [topic], provide a complete instructional guide on how to implement it, including any additional resources I might need.         |
| <b>Customizing Interventions</b>             | What targeted interventions can I implement for students struggling with [topic] in [grade level] [subject], including specific exercises and resources?                                                      | From your suggestions for interventions for [topic], create a detailed plan for one specific intervention, outlining the process, necessary materials, and expected outcomes? |
| <b>Developing Assessment Tasks</b>           | Could you guide me in designing assessment tasks for a unit on [topic] that are suitable for [grade level] [subject] and include diverse assessment forms, ensuring comprehensive coverage of the curriculum? | Take the assessment framework you described for [topic] and develop a full set of assessment tasks, complete with instructions and grading criteria.                          |
| <b>Assessments of Transfer</b>               | What approaches can I employ to design assessments that effectively evaluate the ability of students in [grade level] [subject] to apply their knowledge of [topic] in new and varied contexts?               | Based on the approaches you proposed for assessing knowledge transfer in [topic], design a specific assessment activity that includes real-world application scenarios.       |
| <b>Connecting Content to Real Life</b>       | How can I make [topic] relevant to my [grade level] students by linking it to real-life situations such as [examples], and what types of group projects could reinforce this connection?                      | For project x that you generated for making [topic] relevant, detail one project, including objectives, student roles, resources, and assessment methods                      |
| <b>Boosting Engagement and Motivation</b>    | How can I enhance student motivation in [subject] through interactive strategies such as storytelling and role-play, focusing on key themes and civilizations, complemented by a detailed engagement plan?    | Following the engagement plan you outlined for [subject] using x activities, create a detailed session plan, including all necessary instructions and student resources?      |

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| <b>Crafting Effective Lesson Openings</b>  | What methods can I use to design engaging lesson openings for [subject] on topics like environmental changes that incorporate current events and multimedia elements to capture student attention?  | Using the engaging opening activity X that you suggested for [subject] on [topic], provide a script or detailed outline that I can use to start my next class.                       |
| <b>Designing Impactful Lesson Closings</b> | Suggest ways to craft impactful lesson closings for [subject] that reinforce central themes and connect to contemporary issues, focusing on critical analyses and including reflective activities?" | Based on the closing strategies you suggested for [subject], develop a structured reflective activity that incorporates critical analysis and links back to the lesson's main themes |
| <b>Efficient Standard Consolidation</b>    | What approaches can I employ to efficiently combine and cover all required standards in [subject] on topics such as ecosystems                                                                      | Using the consolidation strategies you mentioned for [subject] on ecosystems, help me plot out a detailed week-long unit plan that efficiently covers all necessary standards?       |