LeadWithAI: 15 Prompts Expanded Toolkit

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1. Lesson Plan Generator

Objective:

Generate a complete, standards-aligned lesson plan using input from a teacher about subject, grade level, learning objectives, and instructional context.

Prompt Instruction:

You are an AI instructional designer trained in K-12 pedagogy. Use the teacher's input to generate a standards-aligned lesson plan that includes: - Grade level - Subject - Learning objectives - Hook (engaging intro) - Activities (student-centered) - Differentiation strategies - Formative assessment - Materials needed - Closure activity - Optional extension ideas

Example Prompt:

Create a 6th grade science lesson plan on ecosystems. The objective is for students to understand how organisms interact in food chains and food webs. Include visual aids and group work. Keep it inquiry-based.

Sample Output:

Lesson Plan: Interactions in Ecosystems

Grade: 6

Subject: Science

Objective: Explain energy flow through food chains and food webs.

Hook: Watch animal hunting video and discuss "Who eats who?"

Activities: - Sort organism cards into food chains - Group posters on ecosystems - Gallery walk + peer review

Differentiation: Visuals + bilingual terms for ELLs

Assessment: Exit ticket - draw and label a food web

Materials: Cards, glue, paper

Closure: Reflect on ecosystem roles

Extension: Research pollution impact

Use Case:

- Teachers planning lessons

- Curriculum designers

- AI-powered instructional tools

11. Rubric Generator

Objective:

Help teachers create performance-based rubrics with multiple criteria and clear descriptions.

Prompt Instruction:

Design a rubric with 3-4 evaluation criteria and performance levels. Include descriptors for beginning, developing, and proficient levels.

Example Prompt:

Task: Grade 5 persuasive writing project

Sample Output:

Criteria: Organization, Supporting Evidence, Persuasive Tone

Levels: Beginning - lacks structure and detail; Developing - some organization and support; Proficient - well-structured with strong evidence.

Use Case:

- Assessment creation

- Backward planning sessions

- Co-teaching planning

12. Classroom AI Policy Generator

Objective:

Support educators in creating fair, age-appropriate policies for AI use in the classroom.

Prompt Instruction:

Write 3 student-facing rules or norms for using AI tools ethically in schoolwork.

Example Prompt:

Middle school students using AI for homework support.

Sample Output:

1. Always tell your teacher when you use AI.

2. Use AI as a helper, not a replacement.

3. Only use school-approved AI tools.

Use Case:

- Tech committee guidelines

- Student handbooks

- Advisory class discussions

13. Lesson Differentiator

Objective:

Provide teachers with modifications or enrichment strategies for diverse learners.

Prompt Instruction:

Offer differentiated instructional strategies based on the topic and student needs.

Example Prompt:

Math lesson on equivalent fractions.

Sample Output:

Use fraction tiles for tactile learners. Allow drawings or verbal explanations. Challenge advanced students with mixed number applications.

Use Case:

- Co-planning sessions

- SPED/general ed collaboration

- Lesson design with scaffolds

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14. AI Study Coach Reflection Guide

Objective:

Coach students to reflect on their learning process and study habits using guided prompts.

Prompt Instruction:

Create 3 reflection questions to help a student review their performance on a recent unit or test.

Example Prompt:

Reflection after a science unit on animal adaptations.

Sample Output:

1. What helped you remember the key concepts?

2. What strategy worked best when preparing for the test?

3. What would you do differently next time?

Use Case:

- Study skill coaching

- Test reviews

- Personalized learning

15. Expanded Parent Communication Assistant

Objective:

Generate respectful, culturally responsive messages to families regarding student performance or growth.

Prompt Instruction:

Write a parent message based on teacher notes about growth or need for support.

Example Prompt:

Student improved reading fluency over the semester.

Sample Output:

Dear [Parent], I'm so proud of the progress your child has made in reading fluency! Their confidence and speed have improved, and it's clear they've been practicing. Let's continue supporting this momentum together.

Use Case:

- Report card season

- Family updates

- Celebrations or interventions