

LeadWithAI: Complete AI Education Prompt Library

Prompt 1: AI 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

Prompt 2: IEP Support Assistant

Objective

Generate IEP accommodations and modifications based on student profiles, grade level, and goals.

Prompt Instruction

You are an AI IEP assistant. Given a student profile and learning goal, return: - Summary - Goal - Accommodations - Modifications - Teacher strategies - Family/home support - Cultural responsiveness

Example Prompt

Design an IEP support plan for a 4th grader with ADHD and dyslexia. Goal: 3-paragraph opinion essay. Issues: decoding, focus.

Sample Output

- **Summary:** Creative, talkative, struggles with decoding/focus
- **Goal:** Opinion essay with thesis and support
- **Accommodations:** TTS, extended time, graphic organizers, breaks
- **Modifications:** 2-paragraph version, allow oral drafts
- **Strategies:** Anchor texts, scaffolded prompts
- **Family:** Reading checklist, use dictation tools
- **Culture:** Use relevant topics, bilingual glossary

Use Case

- SPED teachers, coaches, teacher prep programs

Prompt 3: Grading Assistant

Objective

Generate student feedback from rubric category and performance.

Prompt Instruction

Return: - Assignment name - Rubric category - Performance summary - Student-friendly feedback - Next step suggestion

Example Prompt

Grade an argumentative essay. Focus: "Evidence & Support."
Student used 2/3 sources and weak explanation.

Sample Output

Assignment: Uniforms Essay

Rubric: Evidence & Support

Summary: 2 sources, little explanation

Feedback:

Great start! Next time, explain how each quote supports your opinion.

Next Step: Add 1 more source + connect all examples back to thesis.

Use Case

- ELA/SS/Science
 - Formative/summative
 - Multi-language tools
-

Prompt 4: Parent Communication Assistant

Objective

Generate parent-facing updates based on student progress or behavior.

Prompt Instruction

Tone: Clear, respectful, supportive. Input: Teacher summary.

Example Prompt

Write to a parent: 5th grade student missed 3 homeworks this week.

Sample Output

Hello [Parent Name],
[Student] missed 3 homework assignments this week. We know they usually complete work, so this might be unusual. Please reach out if you'd like to talk. We're here to support!

Use Case

- Homework notes, celebrations, conference invites
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Prompt 5: Behavior Support Generator

Objective

Suggest Tier 1–3 behavior supports based on classroom issues.

Prompt Instruction

Return: - Behavior summary - Root causes - Tiered supports - Teacher responses - Home-school ideas

Example Prompt

A 6th grader talks during quiet time. Very social, needs help with self-regulation.

Sample Output

Behavior: Talking during quiet time

Root Cause: Needs structured transitions

Tier 1: Seating change, visual cues, work timer

Tier 2: Daily check-in, behavior log

Response Tip: Use calm redirect

Home: Positive notes, share goals

Use Case

- SEL support
 - PBIS/MTSS
 - Admin documentation
-

Prompt 6: AI Feedback Explainer

Objective

Translate AI feedback into student-friendly comments.

Prompt Instruction

Input: Original comment + grade level

Return: Rewritten version that's clear, kind, age-appropriate

Example Prompt

Feedback: "Your claim is clear, but your evidence lacks depth."

Sample Output

You made a strong point! Now try adding details and explain how each example supports your opinion.

Use Case

- Writing support
 - Peer/self-assessment
 - Parent-facing reports
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Prompt 7: AI Literacy Explainer

Objective

Explain AI concepts simply to students, families, or teachers.

Prompt Instruction

Input: Age + topic. Return: - What AI is
- Real examples
- Strengths & limitations
- Safety tip

Example Prompt

Explain AI to a 6th grader curious about ChatGPT.

Sample Output

AI is a tool that learns from patterns. It doesn't think like humans. It can help you write or search — but you should always double-check it.

Use Case

- Digital citizenship
 - AI integration units
 - School comms & newsletters
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Prompt 8: Study Coach & Reflection Guide

Objective

Generate personalized study advice from student reflection.

Prompt Instruction

Input: "I study but forget stuff." Return: - What's working

- What to try
- Motivation & mindset tip

Sample Output

You care about your learning — that matters! Try flashcards, short breaks, or teaching a friend. You're on the right track.

Use Case

- Advisory
 - Test prep
 - Learning journals
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Prompt 9: Teacher PD Generator

Objective

Create a full outline for a teacher training session.

Prompt Instruction

Input: Topic + audience. Return: - Title, duration

- Objectives
- Agenda
- Engagement strategies
- Reflection task

Example Prompt

60-min PD for middle school teachers on using AI to differentiate instruction

Sample Output

Title: Differentiation with AI

Agenda: - Mini lesson

- Tool demo
- Group planning
- Share-out

Exit Task: Padlet post

Use Case

- Coaches, admin, trainers
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Prompt 10: AI Ethics Scenario Builder

Objective

Create realistic AI-related dilemmas for class or staff discussion.

Prompt Instruction

Return: - Short scenario
- 2-3 questions
- Reflection prompt

Example Prompt

Students use AI to write essays — some fully copy, some paraphrase. What should the teacher do?

Sample Output

Scenario: 2 students use AI differently. One copies, one paraphrases.

Questions:

- Is it okay to use AI?
- What's "help" vs "cheating"?

Reflection: What does honesty mean when using AI?

Use Case

- Digital ethics
- Staff PD
- Student councils or debate