Teacher Guide

Designing Deeper Learning in the Age of AI

Empowering educators to lead through the AI shift.

The New Reality of Teaching

AI Has Changed the Rules of Learning

Students today can generate full essays, lab reports, and math solutions in seconds. Traditional assignments no longer measure what students truly understand.

This is not about students being lazy, it is about how easily technology can do the work for them. As educators, we must evolve faster than the shortcuts.

Where TaskFixerAI Fits

TaskFixerAI helps teachers reclaim learning by redesigning assignments that cannot be solved through shortcuts. It makes AI part of the process, not the problem, turning every task into an opportunity for deeper thinking, reflection, and creativity.

TaskFixerAI works across all subjects and grade levels. It can be used in English, Math, Science, Social Studies, World Languages, Career and Technical Education, Fine Arts, Physical Education, and any other content area where teachers want students to think deeply, solve problems creatively, and demonstrate authentic understanding.

Key Terms

Term	Meaning
Redesign	Changing an assignment so it promotes deeper thinking.
Scaffold	A support that helps students build toward independence.
Reflection Prompt	A question that helps students think about their own reasoning.
Rubric	A tool that shows how learning will be evaluated.
AI Prompt	A question or instruction given to AI to generate an answer.
Responsible AI Use	Using AI to analyze and learn, not to copy.

You can find a full glossary at the end of this guide.

What TaskFixerAI Does

TaskFixerAI is an AI-powered assistant that helps educators:

- Redesign tasks and assessments to increase rigor and engagement.
- Build higher-order thinking activities that promote analysis, evaluation, and creativity.
- Add reflection prompts that help students internalize their thinking.
- Create scaffolded versions for support and enrichment.
- Provide optional Responsible AI Use activities so students learn to work with technology ethically.

Quick-Start Overview

Time Required: Upload (2 min) → Redesign (30 sec) → Review (5 min) → Classroom Use (varies)

Steps:

1. **Upload your task** (.pdf, .docx, or paste text). Remove student identifiers.
2. **Choose your mode:**
   - *Simple:* Rubric, reflection, and AI-use tip.
   - *Detailed:* Full redesign, multiple reflections, AI directions, and rubric integration.
3. **Review your results:** Redesigned task, printable version, rubric, and teacher notes.
4. **Implement or refine:** Use as-is, modify, or re-prompt.
5. **Guide students:** Model responsible AI use and reflection.

Choosing the Right Mode

Simple Mode	Detailed Mode
Quick improvement for an existing task.	Full redesign for rigor and differentiation.
First-time user or limited prep time.	Unit or multi-step project design.
You plan to add your own scaffolds.	You want built-in reflection and rubrics.

Understanding Your Output

Each redesign includes:

- Redesigned task for deeper thinking.
- Reflection prompts for metacognition.
- Optional AI Support section.
- Non-AI Path for in-class equity.
- Teacher Notes, voice-check, and documentation tips.
- Rubric (auto-generated or adapted).
- Print-ready layout.

Refining Your Output

If the output isn't quite right, re-prompt TaskFixerAI.

Try:

- "Make this task focus more on creativity than recall."
- "Add a reflection prompt that compares student reasoning with AI reasoning."
- "Include an entry-level scaffold for struggling learners."
- "Add a mini-extension for advanced students."

Introducing a Redesigned Task to Students

Checklist

1. Set context: Explain that this task measures thinking, not copying.
2. Model responsible AI use.
3. Clarify expectations and grading.
4. Give students a choice (AI vs Non-AI path).
5. Facilitate reflection.

Sample Script

> "AI can help you check your reasoning, but it cannot replace your reasoning. You can use AI to compare, but you'll need to explain where your thinking was stronger or different."

Subject Walkthroughs

Example 1: ELA (Argumentative Writing)

Upload: "Write a 5-paragraph essay on whether schools should eliminate standardized testing." **Redesign:** Compare two summaries (AI-generated and article). Identify bias, evaluate accuracy, and create your own argument with evidence. **Responsible AI Use:** Students analyze AI's work to find what it misses.

Example 2: Math (Problem Solving)

Upload: "Solve 10 linear equations." **Redesign:** Analyze an AI-generated solution. Identify logic errors and explain corrections. **Responsible AI Use:** Students use AI to check steps, not generate answers.

Example 3: Science (Experimental Design and Analysis)

Upload: "Write a lab report on the effect of light on plant growth." **Redesign:**

- Provide two experiment summaries (one AI-generated, one student-written).
- Ask students to evaluate each summary's hypothesis, procedure, and conclusion for validity and precision.
- Students then design a modified experiment that tests a related variable and explain how their approach improves accuracy.

Responsible AI Use: Students may use AI to compare their procedures or ask how to improve clarity, but they must document which suggestions they accept or reject and why.

Example 4: Social Studies / History (Document-Based Question and Argument)

Upload: "Write an essay on the causes of the Civil Rights Movement." **Redesign:**

- Provide three short source excerpts: one primary source, one secondary historian analysis, and one AI-generated summary.
- Students evaluate reliability and bias in each source.
- Students construct a document-based argument answering, "Which factor most effectively sparked sustained change during the Civil Rights Movement?"

Responsible AI Use: Students can use AI to identify possible counterarguments or find missing perspectives, but must cite all non-original text and write their own final claim and reasoning.

Grading and Feedback

Tips:

- If a rubric is uploaded, TaskFixerAI aligns to it.
- If not, it provides one by category.
- Grade for reasoning and reflection, not only correctness.
- Celebrate originality and voice.

Responsible AI in Practice

Modeling for Students

Explain that AI is a thinking partner, not an author. Require students to document when and how they used AI.

Sample Reflection Questions

- What did AI suggest that you kept or changed?
- How did comparing with AI's answer deepen your understanding?
- What can you now do that AI could not?

Privacy and Data Protection

TaskFixerAI processes uploads in real time and deletes them immediately. Teachers should remove student names before uploading. TaskFixerAI aligns with FERPA principles but is not a student record system.

Troubleshooting

Challenge	Try This
Output too short	Ask "Expand on real-world application."
Missing AI prompt	Ask "Add a responsible AI use example."
Too much scaffolding	Re-prompt "Make this more open-ended."
Need group version	Ask "Redesign for collaborative learning."

Reflection and Growth

Encourage teachers to:

- Track engagement and understanding changes.
- Collect student reflections on responsible AI use.
- Share examples with peers.

Each use of TaskFixerAI deepens your mastery of meaningful learning design.

Contact and Support

Email: info@taskfixer.ai
Website: www.taskfixer.ai

Vocabulary and Key Terms

- **AI (Artificial Intelligence):** Technology that generates or predicts information using data and algorithms.
- **Assignment Redesign:** Rewriting or restructuring a task to promote deeper learning.
- **Cognitive Rigor:** The level of mental challenge required in a learning task.
- **Differentiation:** Adjusting a task for varied student needs.
- **FERPA:** U.S. law protecting student data privacy.
- **Prompt:** A question or instruction given to AI to generate output.
- **Reflection Prompt:** A question helping students analyze their learning.
- **Rubric:** Tool for defining expectations and performance levels.
- **Scaffold:** Step or support that helps learners reach higher levels.
- **Responsible AI Use:** Ethical and thoughtful engagement with AI to learn, not copy.
- **TaskFixerAI Output:** The redesigned assignment, rubric, and reflection materials created by TaskFixerAI.

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