

From Prompt to Product: Mastering AI Prompt Engineering Activity Plan

Overview

Participants explore how generative AI responds to different prompts and learn strategies for effective prompt engineering. They practice with tools like Google's Say What You See and then create their own "AI-as-Historical-Figure" dialogue, refining their prompts to improve outputs and reflecting on results.

Recommended Audience: K-12 Educators

Activity Length: 60 minutes

Experience Level: Beginner

Technical Requirements

- Device Requirements
 - 1 computer per educator (Mac, PC, Chromebook all work great!)
 - Online connectivity at a minimum of 10Mb/sec
 - Modern browsers on computers
 - Chrome
 - Firefox
 - or Safari Version 15.1 or higher
- Tool Access
 - Access to a free generative AI chatbot (e.g., ChatGPT, Gemini, Claude)
- Note on User Accounts:
 - Educators do not need an account to complete this activity. However, participants can only save/return to their work later if they make an account before starting the Hour of AI.
 - Some AI tools may require a free account to use.

Activity Materials

All resources are provided directly in the course: codehs.com/hourofai/prompteng

Participants will move through:

1. Content Pages: What is Prompt Engineering? + Best Practices
2. Practice Activity: Google's Say What You See to explore how AI interprets vague vs. detailed prompts
3. Sample Activities: AI-as-Einstein, AI-as-MLK (modeling how perspective and detail affect responses)
4. Final Reflection: AI-as-Historical-Figure — respond to prompts on accuracy, ethics, and takeaways

Content Standards

This activity supports the following AI literacy competencies from the CSTA K–12 Artificial Intelligence Standards (2021):

- **AI-04.A-ic.3:** Use AI systems to explore new perspectives and approaches that build upon original ideas (create).
- **AI-04.B-ic.4:** Evaluate whether AI outputs should be accepted, revised, or rejected (engage).

Activity Instructions

- Before the Hour of AI:
 - Review the technical requirements for this activity
- During the Hour of AI:
 - Direct participants to codehs.com/hourofai/prompteng
 - Allow participants to work through Hour of AI at their own pace
- After the Hour of AI:
 - Did you know that CodeHS offers K-12 AI curriculum, PD for teachers, and classroom tools? Go to codehs.com/ai to learn more about how you can continue learning about AI.

Need Help?

Email hello@codehs.com to get in touch with our support team!