

Comparing Google Gemini's Drafts

Why?

This lesson empowers students to analyze AI-generated text, a skill critical in today's information-rich world. They learn to identify strengths and limitations, fostering responsible AI use and critical thinking. By comparing and evaluating different AI outputs, students develop information literacy, questioning biases and seeking reliable sources. This equips them to navigate the complexities of online information. Exploring various topics through AI sparks curiosity, encourages independent learning, and helps students understand how technology can shape their understanding of the world around them.

Materials Needed

Computers with internet access

Time needed

Approximately 45 - 60 minutes

Objectives

Students will develop critical thinking skills by evaluating and comparing AI-generated text.

Students will become responsible consumers of information by identifying biases and inaccuracies.

Students will explore the strengths and limitations of using AI as a learning tool.

Key Concepts & Vocabulary

AI-Generated Text: Information created by artificial intelligence, often imitating human writing.

Prompt: A starting point or question given to the AI to guide its text generation.

LLM (Large Language Model): A powerful AI model trained on massive amounts of text data, capable of generating human-quality text, but with limitations in understanding and accuracy.

Lesson

Introduction

Introduce the concept of AI-generated text and its growing role in various fields.

Discuss responsible AI use and ethical considerations. Students should never enter personal information in a chat bot.

Briefly demonstrate how to access and interact with Google Gemini safely. Log on to gemini.google.com, and demonstrate putting in a prompt and then showing how to access the three drafts. (see example at end of plan)

Drafts need to be compared before additional prompts are given. Once another prompt has been entered, the drafts are no longer accessible.

NOTE: Gemini used to be called Bard. Google rebranded it in February of 2024 as Gemini.

Student Group Exploration

Divide students into groups of 2-3.

Provide groups with a broad topic related to their current curriculum (e.g., historical events, scientific concepts, literary characters).

Challenge students to use Gemini to explore their chosen topic and discover three interesting facts or details.

When they ask Gemini a question, they should look at the three drafts and find differences among them.

If students have access to a word processing app, they could copy text and highlight or bold text showing differences.

They should specifically note if there are any facts different between the three answers.

Evaluation Criteria

Show the evaluation criteria on the screen, or pass out a document explaining the following list -

Accuracy: Does the information align with established facts and reliable sources?

Clarity: Is the information easy to understand and interpret?

Relevance: Does the information directly relate to the chosen topic and provide new insights?

Objectivity: Is the information presented in a neutral and unbiased manner?

Originality: Does the information offer unique perspectives or surprising details?

Presentation

Have each group share their findings and present the three "Gemini facts."

Encourage students to reflect on their experience using Gemini.

Ask groups to mention the major differences between drafts.

Guide students in group discussion about the experience.

Discussion Questions

What were the strengths and weaknesses of the information provided?

Can you identify any biases or inaccuracies?

How does Gemini compare to other information sources they have used?

Can you characterize the differences among drafts? Was it in facts, or mostly in presentation?

What are some important things to remember when relying on AI-generated text?

Supplemental Activity Ideas

Comparing Human and AI-generated Reports

Have students write their own summaries of the chosen topic, comparing their understanding to the AI-generated facts.

Responsible AI Use

Create a class presentation or infographic about responsible AI use and its potential benefits and drawbacks.

Comparing with ChatGPT, other AI models

Research and compare different AI language models, exploring their strengths and weaknesses in specific tasks.

Sources to Learn More

Google Gemini Cheat Sheet - Info on how to use this LLM:

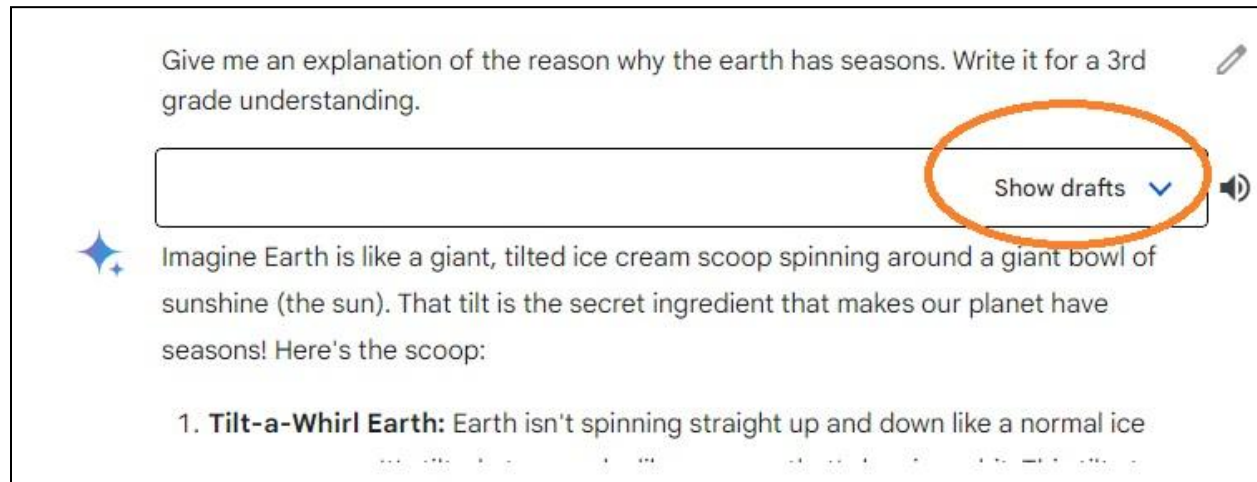
<https://www.techrepublic.com/article/google-bard-cheat-sheet/>

Description of Google's efforts to add variety between drafts:

<https://searchengineland.com/google-bard-adds-more-variety-to-drafts-395815>

Example Prompt

This image demonstrates how to access the three drafts in a Gemini answer.



User: Give me an explanation of the reason why the earth has seasons. Write it for a 3rd grade understanding.

Gemini:

Draft 1: Imagine Earth is like a giant, tilted ice cream scoop spinning around a giant bowl of sunshine (the sun). That tilt is the secret ingredient that makes our planet have seasons! Here's the scoop:

Draft 2: Imagine Earth is like a giant, tilted ice cream scoop spinning around a bowl of soup (the Sun). This tilt is the secret ingredient that makes our planet have seasons! Here's why:

Draft 3: Imagine Earth is like a giant, tilted ice cream scoop spinning around a giant lamp (the sun). That tilt is the secret ingredient that makes our planet have seasons! Here's the scoop:

[Each draft provided a list of five points of comparison for the metaphor of the earth as a giant ice cream scoop. They were similar, but each had slightly different wording and metaphor connections.]