Generating Images with AI

Generative AI: Prompt Engineering Lab Series Lesson Plan (Ages 13+)

This lesson focuses on using generative AI tools to create images based on text prompts, highlighting the importance of detailed and creative prompts in guiding AI to produce specific visual outputs.

Duration

20 minutes

Learning Objectives

Students will be able to:

- Apply the principles of prompt engineering to create various artistic styles and moods in images.
- Experiment with AI tools to create unique and creative images for different scenarios.

Key Skills

• Text to image prompts

Important Note

Please ensure you adhere to your school's approved guidelines and AI policy before introducing this lesson to your students. It is important for educators to be familiar with this technology and its challenges, including the following:

- Many AI tools require students to be at least 13 years old, and may require parental consent for those under 18 years old. Read the terms of service and privacy policy before using any AI tool, app, or website.
- It is important to teach students about the safe and responsible guidelines of using AI at the start of every lesson.
- Generative AI tools may occasionally produce inaccurate or fabricated content. Verify the accuracy of AI outputs using discretion and critical thinking.
- The outcomes of exercises in this toolkit may differ from provided examples, as they depend on your specific inputs and the Al tools employed.

LESSON SLIDE	WHAT TO SAY OR DO
<text><text><section-header></section-header></text></text>	Welcome the students to the class and introduce the concept of generating visual content with Al.
	Start by stressing the importance of ethical and responsible Al
Using Al Tools Safely and Responsibly Before we get started with the basen, we must first memorie these rules of using generative Al tools safely and responsibly. I. Never share your personal and sensitive information when interacting with Al. Be aware of Al's limitations and potential biases in its responses. Al has a tendency to fabricate information at times. Always remember to fact- check any Al-generated information before using it. Use Al ethically: respect privacy, avoid harmful content, and think critically	use. Encourage an open discussion on each of the guidelines presented, asking students for their input and any experiences they may have had with Al tools.
Cobertifi and a second	
What You'll Need - Computer with Internet access - Access to image Creator by Bing (Intr)	Ensure that all students have access to the necessary technological tools. Walk them through how to access Image Creator that will be used during the lesson, offering assistance to those who might be less familiar with these tools.
Concerner I and a spectra for the spectra of the s	*Note to Educators: you may choose any of the listed Al tools that is in line with your school's policies.
WHAT ARE WE LEARNING TODAY? Prompt Engineering Skill Here	Introduce the lesson's focus on generating images with Al. Explain how text-based prompts can be used to guide Al in creating visual content.
Slide 4	
<section-header></section-header>	Encourage students to think of themselves as artists using AI as a tool. Discuss how generative AI can create various outputs, including images, videos, and music.
and AI will do the rest of the work.	



TEACHER'S GUIDE

GENERATIVE AI

<section-header><text><text><text><text></text></text></text></text></section-header>	Discuss the difference between open-ended and specific prompts. Use the example of "a banana on a skateboard" to illustrate how an open-ended prompt may be interpreted by the Al.
<section-header><section-header><section-header><image/><image/><image/><image/><text></text></section-header></section-header></section-header>	Discuss how this example of a more specific prompt generates a different result. Compare and contrast the differences by illustrating how the specificity of each prompt changes the Al-generated image.
<section-header><section-header><section-header><section-header><section-header><section-header><section-header><image/><image/><image/><image/><image/><image/><image/><section-header><section-header><section-header><image/><image/><image/><image/><image/><image/><image/><image/><image/><image/><image/><image/><image/><image/><image/><image/><table-cell><text><text><text><text></text></text></text></text></table-cell></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header>	Explain the elements that can be specified in prompts, such as artistic style, colour scheme, mood, and setting. Highlight how these details affect the final image.
<section-header><section-header><text><text><text><text></text></text></text></text></section-header></section-header>	Stress the importance of transparency and ethical use when employing AI tools. Teach students to properly credit and cite AI-generated content.
GROUP EXERCISE Let's Explore Together! Try these examples to see the skills in action. Chefit? Since Second	Conduct a group exercise where students enter specific prompts into an image generator and observe the results. Encourage creativity and experimentation.



TEACHER'S GUIDE	GENERATIVE AI LESSON 13.10.05
Centrate an A Image Inter this prompt into image Creator: Image: Im	Instruct students to enter the prompt "an astronaut cat floating in space" into an image generator, adding their choice of details like style, colours, or mood.
TRY IT YOURSELF Independent Exploration Task Apply the skills you've learned in this task. Generic Institutions Slide 12	For this exploration task, students can choose to work in pairs, small groups, or independently. Encourage students to use the skills they have learned in this lesson to complete the task ahead.
Vour task is to create a poster for a movie about a mysterious figure known as tades of grey. Using generative Altools, use your imagination create a prompt that will provide an eye catching poster, You can decide on what the Colour Thief should look like, the genre of the movie, and artistic style. Other memory Slide 13	Assign students the task of creating a movie poster for 'The Colour Thief' using generative AI tools. They should decide on the appearance, genre, and artistic style of the poster.
Group Sharing! What did you come up with?	Invite students to share their Al-generated posters. Encourage discussions on the effectiveness of their prompts and the creativity of the Al responses.
Court 1222 Well Done!	Wrap up the lesson by summarising the key learnings. Encourage continued practice in using AI for creative image generation.

