

Future of Work Initiative

Artificial Intelligence (AI) in the Classroom: AI Tools in Action

Student activity #2 Lesson Plan - Intro to Artificial Intelligence: AI Tool Exploration

Learning objectives

- ✓ Students will be able to use ChatGPT to generate text for varying purposes
- ✓ Students will be able to utilize image generation tools for various purposes

Structure of the lesson

- ✓ Intro - 5 mins
- ✓ AI in creativity - 10 min
- ✓ Exploration with Dall-E - 20 min
- ✓ Exploration with ChatGPT - 20 min
- ✓ Reflection and closing - 5 min

Duration: 60 minutes

Note to Educators: Note to Educators: This resource is provided as an example and is intended to serve as a foundational template. Educators are encouraged to adapt and modify the content to better suit their specific educational contexts, needs, and the unique requirements of their students. Customization will ensure the most effective and relevant learning experience.

Resources

- [Lesson slides](#)
- AI Literacy Resources:
 - [Teach AI](#) - Teacher resources to expand AI knowledge
 - [AI EDU](#) - AI Literacy resources

Timing	Facilitator's actions	Technical notes
0-5 mins	<p>Introduction: Slides 1-3</p> <ul style="list-style-type: none">• Following on from lesson 1 - re ground the conversation in what AI is, have students share examples of what they learned from the first lesson before moving on to today's activities. The purpose of today's time is to get hands on and explore the capabilities AI can offer when it comes to text and image generation.• Framing:<ul style="list-style-type: none">○ Technology is changing○ It's up to us to understand how we can harness technology for good and to supercharge our own abilities!	If skipping lesson 1 - Jump to definition of AI and skip reflection on what was learned in the first lesson

5-15 mins	<p>Slides 4-8: Videos on AI supporting creativity</p> <ul style="list-style-type: none"> ● Framing: “Today we will have the chance to use AI tools to explore how they can support image and text creation. Before we try these tools ourselves we’re going to watch three quick videos showing you just some of the ways AI is changing the game. ● Prompts: <ul style="list-style-type: none"> ○ What did you notice ○ Follow up: AI can generate diverse content like text images, video, and audio ○ What did humans do to allow for AI to create content ● Note: Stamp that everything created was driven by human input. The better the input - the better the content created will be 	<p>Slide 5 Slide 6 Slide 7</p>
15-35 mins	<p>Slide 9-12: Dall-E Practice</p> <ul style="list-style-type: none"> ● Task 1 <ul style="list-style-type: none"> ○ Small groups of 3-5 for book cover creation on Dall-E ○ Prompt: Write 10 words describing what you want your book cover to look like (3 min) ○ (7 min)Teacher will input these 10 word descriptions into the image generation tool and students will share reactions to what is created ● Task 2 <ul style="list-style-type: none"> ○ Groups refine their 10 word descriptions to include setting, main character traits, etc with no word maximum ○ Repeat activity with prompt generated images ● Stamp: The importance of prompting on slide 11 - Content is only as good as the prompts used to generate them! 	<p>Note: For students who have access to their own devices they can create these images on their own. If students will be viewing a teacher managed device you will select groups to share their prompts for whole group viewing</p> <p>If unable to access Dall-E please use https://playground.com/create</p>
35-55 mins	<p>Slides 13-16: Text Generation with GPT</p> <ul style="list-style-type: none"> ● Framing: Next we’re going to have the chance to utilize these tools for text generation! <ul style="list-style-type: none"> ○ Through this practice we are also going to learn a bit more about prompting to make the generated content as accurate as possible ● Task 1 <ul style="list-style-type: none"> ○ 7 minutes to explore with prompt generation ● Task 2 <ul style="list-style-type: none"> ○ Prompt refinement ○ Not only can we give directions on what you want generated, we can also give directions for AI to embody a particular persona! ● Prompt: Prompts (7 minutes to explore with your group) <ul style="list-style-type: none"> ○ Give the AI a persona - “You are an author writing for a middle school audience” ○ Give the AI an objective - “You are writing a fantasy story meant to entertain the reader” ○ Provide key details that are important to you: Main character, problem, setting, etc. 	<p>-Note: If using a teacher device limit options on slide 14 to Option 2</p> <p>ChatGPT</p>
55-60 min	<p>Slide 17 - Closing</p> <ul style="list-style-type: none"> ● Whole group share out ● Prompts: <ul style="list-style-type: none"> ○ What is the most surprising thing you learned today? ○ How might you use AI in your life moving forward? 	