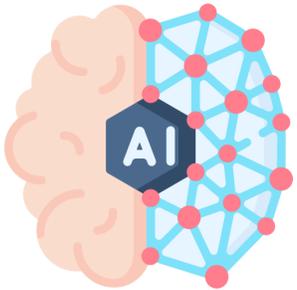
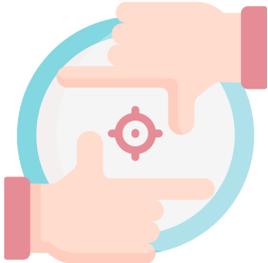


## Lesson 1: Talking to Machines

Word	Definition	Example or Image
<p><b>artificial Intelligence (AI)</b></p>	<p>a _____ that mimics human _____, performing tasks such as understanding _____, recognizing _____, and making _____</p>	
<p><b>probability</b></p>	<p>the _____ that a specific _____ might _____</p>	
<p><b>abstraction</b></p>	<p>the process of _____ on only the _____ details of a problem and _____ everything else</p>	

Word	Definition	Example or Image
<b>prompt</b>	a _____, instruction, scenario, or _____ provided by the _____ to guide the AI's _____	

## Question of the Day

### How can I use AI effectively?

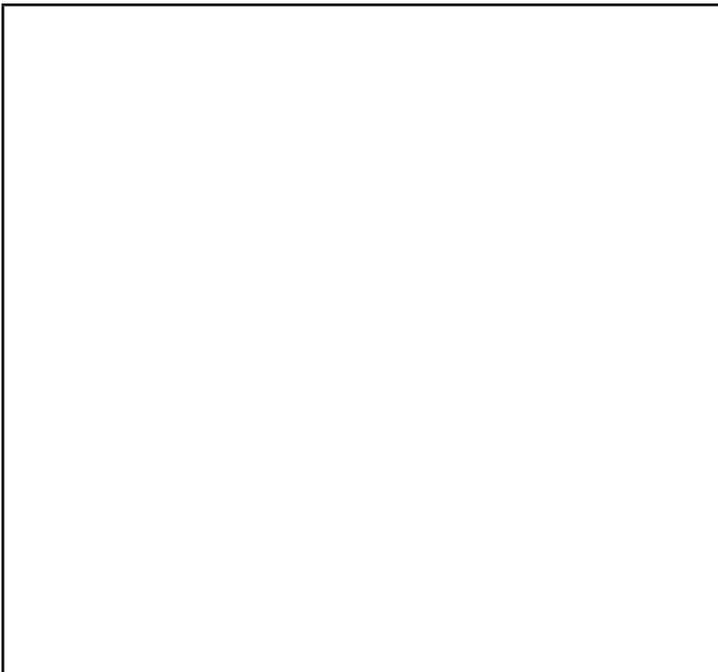
*Hint: Think about what prompting strategies you used to get the most helpful AI chatbot output.*

## Lesson 2: Beyond Words

Word	Definition	Example or Image
<b>multimodal model</b>	an AI _____ that can process information from _____ types of input	

### What's in an image?

1. List as many things as you can that you see in the image.



2. Go to Lesson 2, Level 2 and upload this image into AI Chat. Ask the AI to describe the uploaded image and record its answer below.

3. Compare AI's observations to your own.

Things Only I Noticed	Things AI and I BOTH Noticed	Things Only AI Noticed

## Privacy and Ethical Concerns

What unexpected details did AI pull from the image description?

Could someone's location, identity, or background information be inferred?

How does this relate to privacy risks in AI applications?

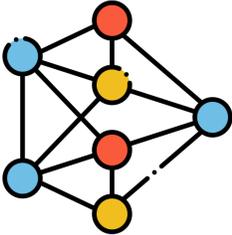
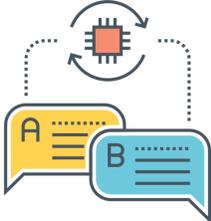
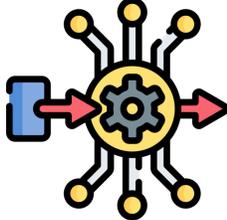
## Question of the Day

**What is the effect of using multimodal inputs with AI?**

*Hint: Use one or more of these sentence starters to help answer this question.*

- One way I saw AI process text and images differently today was...
- I was surprised when AI responded to the image by...
- Comparing text-only inputs versus text and image inputs, I noticed that...
- I think using an image with AI is (more/less) useful because...
- This connects to what we learned about effective prompting because...
- A privacy or ethical concern I noticed when AI analyzed images is...

## Lesson 3: The AI's Brain

Word	Definition	Example or Image
<p><b>neural network</b></p>	<p>an _____ network that _____ using weights and hidden layers. It is used to represent the _____ between _____</p>	
<p><b>large language model</b></p>	<p>a _____ form of AI that is _____ on a very, very _____</p>	
<p><b>training data</b></p>	<p>the structured or unstructured _____, such as text, images, or code, used to _____ an AI model and shape its ability to _____ patterns and _____ accurate responses</p>	
<p><b>training</b></p>	<p>the process of _____ an AI model by exposing it to _____ amounts of data, allowing it to learn _____, improve _____, and refine its _____ over time</p>	

## Prompting Challenge

AI responds differently based on how much detail you provide in your prompt. In this activity, you'll test three levels of prompting – zero-shot, one-shot, and multi-shot – to see how more context improves AI's responses.

### Your Task:

1. Choose a career scenario: Sports Journalist, Video Game Developer, or Travel Agent
2. At each level, write and test a prompt.
3. Answer the reflection question using the sentence frames provided.

## Level 1: Minimal Context Given

### Question:

*What kind of response does AI give when you don't provide much detail?*

### Use these sentence frames:

- The AI's response was mostly about \_\_\_\_\_.
- I noticed the response felt \_\_\_\_\_ (e.g., vague, specific, repetitive, creative).
- I think the AI made assumptions like \_\_\_\_\_.

## Level 2: Providing a Single Example

### Question:

*How does adding one example change the AI's response?*

### Use these sentence frames:

- Compared to before, the AI's response was more \_\_\_\_\_ because \_\_\_\_\_.
- The example I included helped the AI \_\_\_\_\_ (e.g., change tone, add detail, focus the topic).
- Adding one example made the result feel \_\_\_\_\_.

## Level 3: Providing Multiple Examples for Refinement

### Question:

*How does more structure or multiple examples improve the AI's response?*

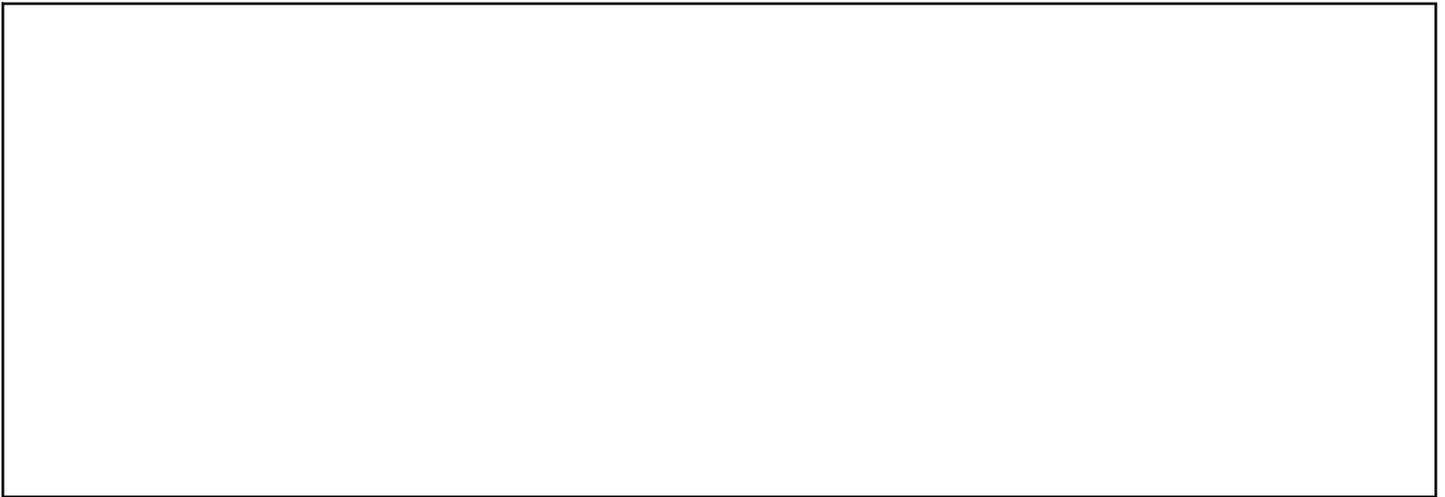
### Use these sentence frames:

- With more structure/examples, the AI's response became \_\_\_\_\_.
- One new thing the AI did this time was \_\_\_\_\_.
- This shows that AI responds better when you \_\_\_\_\_.

## Question of the Day

### How do AI models learn?

Create a short comic strip that shows something you learned about how AI learns, predicts, or responds to prompts—make it funny, insightful, or even a little weird!



## Lesson 4: Smart or Just Predictable?

Word	Definition	Example or Image
<b>hallucination</b>	When the _____ makes up _____ or _____ information that sounds _____ but isn't _____	

### Human vs AI Response Comparison

For each task, think about how a human would do compared to AI. Rank each on the following categories:

- **Speed:** 1 (extremely slow) - 5 (extremely fast)
- **Accuracy:** 1 (extremely inaccurate) - 5 (extremely accurate)
- **Creativity:** 1 (not at all creative) - 5 (extremely creative)

Then explain whether or not you would recommend using AI for a similar task in the future.

Solving a Math Problem				
	Speed (1 - 5)	Accuracy (1 - 5)	Creativity (1 - 5)	Is this a task you would recommend using AI for? Why or why not?
<b>Human</b>				
<b>AI</b>				

Answering a Creative Question				
	Speed (1 - 5)	Accuracy (1 - 5)	Creativity (1 - 5)	Is this a task you would recommend using AI for? Why or why not?
<b>Human</b>				
<b>AI</b>				

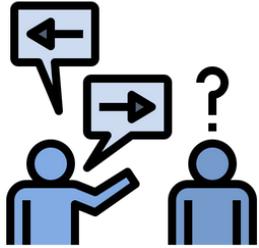
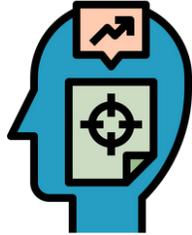
Providing Historical or Technical Information				
	Speed (1 - 5)	Accuracy (1 - 5)	Creativity (1 - 5)	Is this a task you would recommend using AI for? Why or why not?
<b>Human</b>				
<b>AI</b>				

## Question of the Day

### Where does AI excel vs struggle?

*Hint: Think about when and why you would use AI as a collaborator and when you wouldn't.*

## Lesson 5: Uncovering Contradictions

Word	Definition	Example or Image
<p><b>contradiction</b></p>	<p>when an AI generates _____ responses based on a similar _____, making it _____ for both responses to be _____ at the same time</p>	
<p><b>context</b></p>	<p>additional _____ surrounding a _____ that helps the AI generate _____ responses</p>	

### Question of the Day

**Can AI contradict itself?**

**How do you think your response to the previous question will evolve in 10 years?**

## Lesson 6: Understanding Bias

Word	Definition	Example or Image
<b>bias</b>	when a model _____ _____ over _____	
<b>alignment</b>	ensuring an AI system's _____ and _____ match human _____	

### Question of the Day

**What is AI bias and how does it emerge?**

3 examples where you saw AI bias in this lesson:

2 things we can do to help reduce bias:

1 reason bias might exist:

## Lesson 7: AI's Wild Imagination

### Question of the Day

**What are some examples of AI hallucinations? What are their impacts?**

**Hint:** List 2-3 examples you heard about today and the impact for each.

AI Hallucination	Impact

## Lesson 8: Debugging and Refining Outputs

Word	Definition	Example or Image
<b>prompt engineering</b>	the process of creating ----- and ----- prompts to guide ----- -----	

### Five Key Elements of a Prompt

Practice refining a prompt using each element, then explain how it improved the AI's output.

1. **Task** - Specific and actionable instructions
2. **Context** - Relevant background details
3. **Format** - How the response should be structured
4. **Reference** - Additional examples or resources
5. **Tone** - The style in which the output is given

Task	
<b>Original prompt</b>	Help me clean my room.
1. Revise the prompt: what <b>task</b> did you add to the original prompt?	
2. How did refining the prompt improve AI's output?	

Context	
<b>Original prompt</b>	You are a marketing executive at a sportswear company. Come up with a slogan for a new running sneaker.
1. Revise the prompt: what <b>context</b> did you add to the original prompt?	
2. How did refining the prompt improve AI's output?	

Format	
<b>Original prompt</b>	You are a professional food critic. Generate some ideas for how to evaluate a new restaurant.
1. Revise the prompt: what <b>format</b> did you add to the original prompt?	
2. How did refining the prompt improve AI's output?	

Reference	
<b>Original prompt</b>	You are an architect planning a building downtown. Figure out how many shops can fit on the ground floor of the new building, which is the size of a football field.
1. Revise the prompt: what <b>reference</b> did you add to the original prompt?	
2. How did refining the prompt improve AI's output?	

Tone	
<b>Original prompt</b>	You have been selected as a host for an awards ceremony. Prepare your opening speech.
1. Revise the prompt: what <b>tone</b> did you add to the original prompt?	
2. How did refining the prompt improve AI's output?	

## Question of the Day

**How can we improve AI's responses?**

**Do This:** Choose one of the five prompt elements above. Write an example of how to refine a prompt using this element.

## Lesson 9: AI as a Co-Creator

### AI Essay Critique

Read the following AI-created essay and then note things the essay does well and what it is lacking in the table below.

*Ever since I was young, I have faced many challenges that have helped shape who I am today. Life is full of ups and downs, and each experience teaches us something important. One particular moment taught me the value of hard work and determination. It was not easy, but I learned that staying positive can make a big difference. This experience showed me how to overcome obstacles and become a stronger person.*

What does this essay do well?	What is it lacking?

Word	Definition	Example or Image
<b>co-creating</b>	humans and AI working _____, with humans providing _____ and direction, while AI assists by processing _____, generating _____, or _____ tasks	

## Question of the Day

**How can AI enhance creativity?**

### **Stand and Swap:**

1. Stand and discuss the Question of the Day within your project group.
2. "Swap" by joining your group with another group nearby to share insights.
3. Compare experiences and discuss how AI helped shape or improve your creative process.

## Lesson 10: Remixing, Creativity, and Originality

### Question of the Day

#### How do human strengths and AI capabilities interact?

You'll answer this question today by deciding how you feel about the statements below. Circle a thumbs up if you agree, thumbs down if you disagree, or thumbs sideways if you're unsure.

**Thumbs Up:** I agree  
**Thumbs Down:** I disagree  
**Thumbs Sideways:** I'm unsure



#### Statement #1

AI is just as creative as humans



#### Statement #2

I would use AI again for a creative project.



#### Statement #3

AI and humans working together create better results than AI or humans working alone.



## Lesson 11: Ownership, Ethics, and Creativity

Word	Definition	Example or Image
<p><b>ethics</b></p>	<p>a guide for _____                      choices about emerging technologies,                      ensuring _____/ _____/                      and _____ for                      everyone</p>	
<p><b>copyright</b></p>	<p>the _____ right granted to the                      _____ of an original work to use,                      distribute, and modify it</p>	
<p><b>attribution</b></p>	<p>the act of giving _____ to the                      original _____ of a work,                      especially in the context of using or                      referencing their material</p>	
<p><b>transparency</b></p>	<p>the practice of _____ disclosing                      how something works, especially in terms                      of _____,</p>	

	data use, or AI processes	
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## Question of the Day

What are the ethical considerations of AI collaboration?

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## Lesson 12: AI's Role in Society

### Question of the Day

**How should AI be used in solving real-world problems?**

*Hint: Think about the what you learned about today that you should consider when using AI to solve problems*