Field agent
Student Workbook



Name_____

Field Agent Pre/Post Knowledge Check

Name: _____ **Date:** _____

1. What does AI learn from?



A. Guesses
B. Data and information
C. Computers
D. Electricity

2. What might happen if an AI learns from incomplete data?

A. It will always be correct.
B. It will stop working.
C. It will learn faster.
D. It will make mistakes or unfair decisions.

3. True or False: The first output from an AI system is always correct.

A. True
B. False

4. True or False: AI can be trained by many examples so it can learn patterns.

A. True
B. False

5. True or False: Humans need to check AI outputs to make sure they are accurate and fair.

A. True
B. False

Field Agent Vocabulary Preview

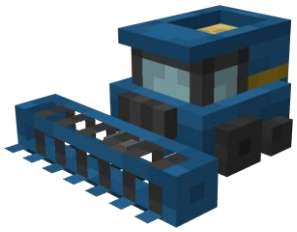
Name: _____ **Date:** _____

Vocabulary Preview: Circle Q, H, or T in the first column to rate what you know about each word. Then explain it in your own words.

Q — I have seen this word, but I have questions. H — I have heard this word, but I do not know it well yet. T — I know this word well enough to teach it to someone else.

My Rating	Word	Meaning	In my own words
Key Vocabulary			
Q H T	1. Artificial Intelligence (AI)	Technology that uses data and computational methods to identify patterns and produce outputs.	
Q H T	2. Data	Information, such as words, numbers, images, measurements, or examples.	
Q H T	3. Debug	Find and fix a problem in a computer program or system.	
Q H T	4. Input	Information or instructions supplied to a system.	

Q H T	5. Output	A result produced by a system.	
Q H T	6. Train	Develop an AI model using data and examples so it can identify patterns.	
Q H T	7. Test	Check how consistently, accurately, safely, and fairly a system performs in different situations.	
Additional Vocabulary			
Q H T	8. Model	A computational system developed to identify patterns and produce particular types of output.	
Q H T	9. Predict	Produce an estimate based on patterns in data.	
Q H T	10. Prompt	An instruction or request given to an AI system.	



Field Agent Vocabulary Practice 1

Name: _____ **Date:** _____

Vocabulary Practice 1: Picture the Meaning

Choose one vocabulary word. Draw a picture that shows what the word means. Include details that would help someone else understand the concept.

My drawing:



Explain one detail from your drawing:

Field Agent Vocabulary Practice 2

Name: _____ **Date:** _____

Vocabulary Practice 2: Write It. Discuss It



A friend says, “AI always knows the right answer!”

Step 1: Write: Draft a short paragraph that responds to your friend.

- Explain what AI needs to do a good job.
- Use at least three vocabulary words and underline each one.

My draft:

Step 2: Discuss: Share your response with a partner. Then, have your own conversation about why good data and people are important when using AI. Challenge yourself to use additional vocabulary words when you talk!

Field Agent | Exit Ticket: Option 1

Name: _____ **Date:** _____

Essential Question: *How can the information that people provide an AI system affect the results? What can happen when important information is missing?*

In the space below, answer the essential questions based on what you just learned.

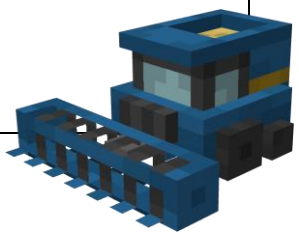


Field Agent Exit Ticket: Option 2

Name: _____ **Date:** _____

Reflect on your learning experience. Complete the sentences.

AI learns by...
One mistake an AI might make is...
Humans should always check AI outputs because...



Field Agent Exit Ticket: Option 3

Name: _____ **Date:** _____

A farmer trains AI to build fences for different sized animals but only shows examples of small fences for rabbits.

What problem might happen when the AI tries to build a fence for a horse (or a larger animal)?	How could the farmer improve the AI's training?



Field Agent Exit Ticket: Option 4

Name: _____ **Date:** _____

Write input, output, or human check based on each statement.

Statement	Input, Output, or Human Check?
Teaching AI which crops are ready to harvest.	
The AI chooses which crops to harvest.	
A person reviews what the AI does and fixes mistakes.	
Showing the AI examples of different animal gates	

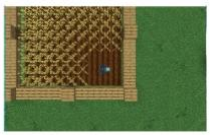


Field Agent Exit Ticket: Option 5

Name: _____ **Date:** _____

Choose your favorite activity from the game. In each row, use words or a sketch to show what happened during that part of the AI training process.





My favorite activity:
1. Training Data What examples or information did people give the AI? Why were they useful?
2. What the AI Learned What pattern, rule, or skill did the AI learn from the data?
3. Result and Human Check What did the AI produce or decide? How did or could a person check or improve it?

AI Output Review Checklist

Use this checklist when reviewing something created by AI. Remember AI will make mistakes. Humans are responsible for checking AI output.

Before I accept an AI output, I ask:	
Is it accurate?	• Does this answer seem correct? • Does it match what I already know? • Can I check the information using another source, person, or example?
Is it complete?	• Did the AI answer the entire question? • Is any important information missing? • Would adding more examples or details improve the answer?
Is it fair?	• Does the answer seem fair to everyone? • Does it include different examples or perspectives? • Could the AI be making assumptions because of limited data?
Does it make sense?	• Is the answer clear and easy to understand? • Are there any confusing parts? • Does the solution help solve the problem?
Would I trust this?	• Am I confident that this output is useful? • Would I feel comfortable sharing it with others? • Have I checked it before using it?

AI Output Review Checklist continued...

Action Plan

If you find a problem with the AI output, you can:

- Check the facts.
- Provide better examples or data.
- Rewrite the prompt or instructions.
- Ask a teacher, expert, or trusted source for help.
- Correct the mistake yourself.

Final Decision

After reviewing the AI output, I think it:

- It is ready to use
- Needs some changes
- Is not accurate enough to use

AI Output Reminder: Do not accept AI outputs without checking. Question, improve with better data, and verify results.

