

Final Challenge



SHOW WHAT YOU KNOW!

Let's check what we've learned. You can discuss as a group or answer in your student guide. Check your answers below.

1. A farmer uses a smart tractor with a camera and an AI brain. The AI looks at the plants and decides exactly how much water each one needs. This is an example of:

- ☐ a) An AI that is a helpful tool for a real-world job.
- ☐ b) An AI that is just for playing games.
- ☐ c) An AI that has feelings and gets thirsty like a plant.
- ☐ d) An AI from a science fiction movie.

2. When programmers build an AI's 'brain,' they create something that works a bit like the connections in a human brain. What is this special AI brain called?

- ☐ a) A computer chip.
- ☐ b) An electric circuit.
- ☐ c) A power cord.
- ☐ d) A neural network.

3. To teach an AI what a "stop sign" is, you show it 1,000 pictures of different stop signs. This process of teaching an AI with lots of labelled examples is called:

- ☐ a) Giving the AI a break.
- ☐ b) Playing a game with the AI.
- ☐ c) Training the AI.
- ☐ d) Talking to the AI.

Final Challenge

SHOW WHAT YOU KNOW!

4. An online video store has an AI that suggests movies for you to watch. It learned that you love cartoons, so it mostly suggests cartoons. This AI helper is called:

- ☐ a) A chatbot.
- ☐ b) A biased AI.
- ☐ c) An algorithm.
- ☐ d) A movie director.

5. An AI is trained to recognize dogs, but it is only shown pictures of big, fluffy dogs like Golden Retrievers. When it sees a picture of a tiny, short-haired Chihuahua, it doesn't recognize it as a dog. This is a big problem called:

- ☐ a) A computer glitch.
- ☐ b) A fun feature.
- ☐ c) AI bias.
- ☐ d) A slow internet connection.

6. What is the MOST important reason why a chatbot can't be a "true" friend?

- ☐ a) Because chatbots don't have bodies and can't play outside.
- ☐ b) Because chatbots are not very good at telling jokes.
- ☐ c) Because chatbots need to be charged.
- ☐ d) Because chatbots don't have real emotions or feelings.

Final Challenge

SHOW WHAT YOU KNOW!

7. Match the AI helper with the job it does best!

AI Helper	Job
a) Spell Checker matches with:_____	A. Recognizing your face to open a phone or device
b) Siri or Alexa matches with:_____	B. Answering your questions out loud
c) Face Unlock matches with:_____	C. Finding spelling mistakes in your writing

8. Why is it so important to teach an AI with lots of different kinds of information, like pictures of many different types of dogs, not just one?

- ☐ a) So the AI can learn to be fair and recognize all dogs, not just some.
- ☐ b) So the AI gets tired from looking at too many pictures.
- ☐ c) So the AI can pick a favorite type of dog.
- ☐ d) So the AI can learn how to bark.

9. In the future, some jobs might be done by robots. Why is it important for people to keep learning new things?

- ☐ a) So they can teach the robots all the new things they learn.
- ☐ b) So they can prove to the robots that humans are still smarter.
- ☐ c) Because there will be new and exciting jobs created that need human skills like creativity and problem-solving.
- ☐ d) Because robots will get tired and need humans to take over.

Final Challenge

SHOW WHAT YOU KNOW!

10. You are scrolling online and only see videos about your favorite video game. What is the best way to be an "online explorer"?

- ☐ a) Search for a new topic you are curious about, like "how volcanoes work."
- ☐ b) Only watch the videos that the algorithm gives you.
- ☐ c) Ask the algorithm to show you something different.
- ☐ d) Close the app and do something else.

11. You ask your family's smart speaker, "Hey, can you play the 'Hockey Night in Canada' theme song?" and it starts playing. This is an example of:

- ☐ a) A regular radio that can't understand you.
- ☐ b) A computer that is just following a simple script.
- ☐ c) An AI that can understand human language.
- ☐ d) A TV remote that can change the channel.

12. Which of these is an example of a tool that does NOT use AI to learn or make decisions?

- ☐ a) A GPS app that finds the fastest route through traffic.
- ☐ b) A music app that suggests new songs based on what you like.
- ☐ c) A simple calculator that only adds and subtracts numbers.
- ☐ d) A phone that unlocks by recognizing your face.

Final Challenge

SHOW WHAT YOU KNOW!

13. An AI can learn to do amazing things, but it can't learn on its own without help. Who is MOST important for teaching an AI and giving it the right information to learn from?

- ☐ a) Other AIs.
- ☐ b) The internet.
- ☐ c) People.
- ☐ d) The computer's battery.

14. What is ONE rule you would make for all AI to follow to make sure they are always helpful and fair?

15. What was the coolest or most surprising thing you learned about AI in this course?

Final Challenge



FINAL REVIEW ANSWER KEY

- 1.a
- 2.d
- 3.c
- 4.c
- 5.c
- 6.d
- 7.1-C, 2-B, 3-A
- 8.a
- 9.c
- 10.a
- 11.c
- 12.c
- 13.c
14. There are multiple correct answers. The goal is to think creatively and ethically!
15. There are multiple correct answers. The goal is to reflect on your learning.

