



AI Adventures:
Exploring the World of Smart Machines
STUDENT GUIDE

LESSON 3

The Curious Case of Chatterbot



**JA
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Lesson 3:

The Curious Case of Chatterbot

OVERVIEW

What happens when you talk to a robot? In this lesson, you'll meet an AI chatbot and find out how they can talk, tell jokes, and help us out. You will also explore a big question: what makes a real friend different from a computer program?



KNOWLEDGE CHECK

Place a check mark (✓) next to the correct answer.

1. You ask a chatbot on your tablet, "What's the weather like in your city today?" and it instantly tells you it's sunny and 20 degrees. What's going on here?

- ☐ a) The chatbot is sharing how it feels about the weather.
- ☐ b) The chatbot is being a helpful tool that can find information super fast.
- ☐ c) The chatbot is remembering a time it went outside in your city.
- ☐ d) The chatbot is just making up a random answer.

2. Your friend is sad because he scraped his knee. Why would talking to YOU be better for him than talking to a chatbot?

- ☐ a) Because you can give him a hug and really understand how he feels.
- ☐ b) Because a chatbot knows more facts about scraped knees.
- ☐ c) Because a chatbot can tell better jokes to cheer him up.
- ☐ d) Because you might not know what to say to make him feel better.

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REFLECTION ACTIVITY: CHATTERBOT CHALLENGE

Mission:

With an adult's help, use a safe and kid-friendly chatbot online (If you don't have access to a chatbot, ask a friend or family member to pretend to be one!).

Ask the AI three different kinds of questions and record the answers below.



1. A Fact Question:

(e.g., "How tall is the CN Tower?" or "What is the capital of Manitoba?")

My Question:

Chatbot's Answer:

2. A Fun Question:

(e.g., "Can you tell me a silly joke?" or "What's your favorite color?")

My Question:

Chatbot's Answer:

3. A Feeling Question:

(e.g., "Are you happy today?" or "Do you ever get lonely?")

My Question:

Chatbot's Answer:

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LESSON 3 ANSWER KEY

1. b

2. a



GLOSSARY

Artificial Intelligence (AI): A technology that gives computers and robots a 'brain' to think, learn and solve problems in a way similar to, but different from, the human brain.

Chatbot: An AI-powered tool that can talk with people, answer questions, tell jokes, and help with everyday tasks.

Empathy: The ability to understand and share the feelings of another person. It's a human superpower that robots don't have!

Ethics: The rules or ideas that help us decide what is right and wrong. For AI, it means making sure it is used in a way that is fair, safe, and helpful to people.

Bias (in AI): An unfair leaning towards one thing over another. When an AI is biased, it makes unfair decisions because it learned from unfair data that wasn't complete or didn't include everyone.

