



What Is Artificial Intelligence?

Driving Question:

How can I tell the difference between human intelligence and artificial intelligence, and why does that matter?



Where Have You Seen AI?

Turn to a partner and share for 1 minute:



Video Games

Enemy AI, game suggestions



Your Phone

*Face unlock, voice assistant,
autocomplete*



Streaming Apps

Music & video recommendations

Driving Question: How can I tell the difference between human intelligence and artificial intelligence, and why does that matter?

What Is Artificial Intelligence?

AI is a tool created by humans that analyzes large amounts of data, finds patterns, and uses those patterns to make predictions.

01 Created by People

AI does not appear on its own. Humans design, build, and train every AI system.

02 Learns from Data

Instead of following rules, AI finds patterns across millions of examples.

03 Makes Predictions

AI does not "know" things — it predicts the most likely answer based on patterns.

Humans vs. Artificial Intelligence



HUMANS

- Think, feel, and truly understand meaning
- Make decisions based on experience, emotion & creativity
- Can learn from a single example
- Understand why a joke is funny
- Are responsible for what they do



ARTIFICIAL INTELLIGENCE

- Finds patterns in data — does not understand
- Follows statistical patterns, not reasoning
- Needs thousands of labeled examples to learn
- Can predict the next word — cannot feel humor
- Has no responsibility — humans are accountable

AI and Data

DATA



Millions of examples —
text, images, numbers —
collected and labeled

PATTERNS



AI finds repeating
connections and
relationships across all
the data

PREDICTION



AI uses those patterns to
predict the most likely
answer for new inputs

LIMITATION



If the data is wrong or
limited, the prediction will
be wrong too

KEY VOCABULARY

Artificial Intelligence

Data

Pattern

Prediction

Watch AI Respond — Then Decide

Teacher types this prompt:

"Explain what artificial intelligence is to a 5th-grade student."

As you watch, think about:

Q1

Does this sound like a response you would give — or a machine generating text?

Q2

What did the AI explain clearly? What did it leave out — or did it give too much verbiage?

Q3

Is this response better or worse than what a student would write? Why?

Your Turn — Worksheet Time

Part 1

2 min

My Initial Thoughts — What did you think AI was before today?

Part 2

4 min

Defining AI — Complete the sentences from our class discussion

Part 3

4 min

Human vs. Machine — Sort each action into Human, AI, or Both

Part 4

3 min

Critical Thinking — Why does it matter that AI is a tool, not a person?

Part 5

5 min

Everyday AI Challenge — Name one AI you've seen in action this week

Wrap-Up & Reflection

 **Class Discussion:**

"What is ONE new thing you learned about AI today that surprised you?"



EXIT TICKET

Complete Part 5 of your worksheet:

"List one specific example of AI you have seen in action this week."



COMING NEXT — LESSON 2

How AI Responds: Data, Patterns & Predictions

Why can AI sound completely confident while being completely wrong?



Artificial Intelligence (AI)

A tool created by humans that analyzes data, finds patterns, and makes predictions — it does not think or feel.

Pattern

A repeating connection or relationship found across many examples of data.

Training Data

The examples used to teach an AI system. The quality and range of training data shapes everything the AI learns.

Data

Information collected and stored so a computer can use it — can be text, images, numbers, or any recorded facts.

Prediction

The AI's best guess based on patterns it learned — not a fact, and not always correct.

Model

The pattern-finding system an AI builds after analyzing training data.