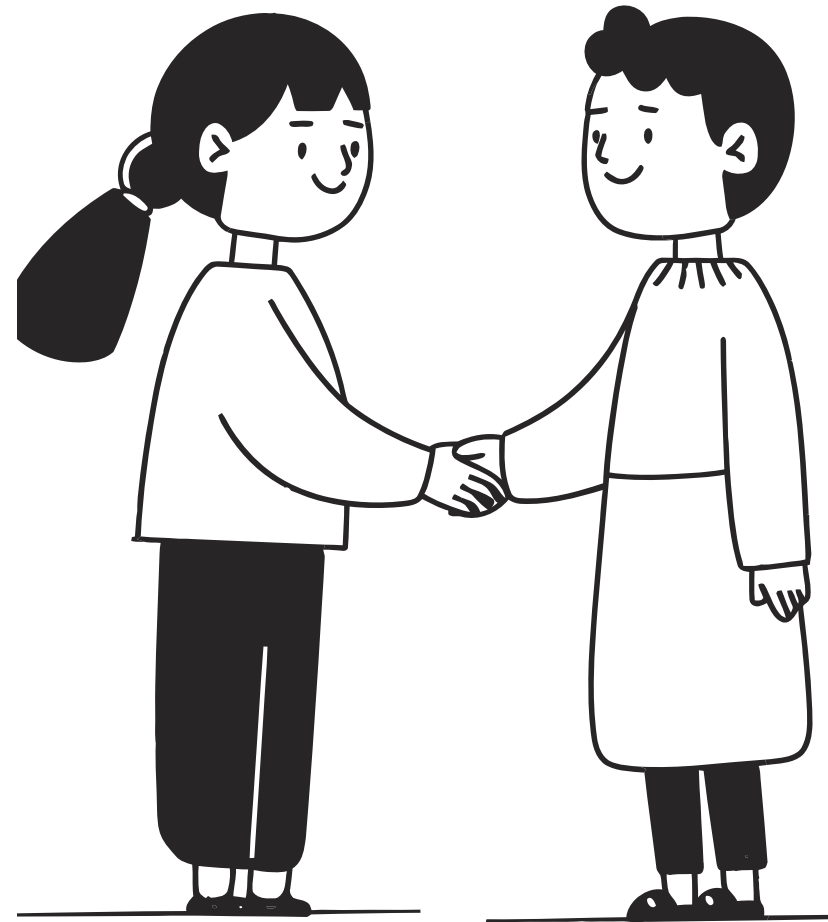


What is Artificial Intelligence?

Lesson 1: Introduction to AI

Grades 3-5



Today's Essential Question

"What is artificial intelligence and how does it work in our daily lives?"



What Do You Already Know?

Let's think together:

- Have you ever talked to Siri, Alexa, or Google Assistant?
- Have you played video games where the computer seems smart?
- Have you seen Netflix or YouTube suggest videos you might like?
- Have you used predictive text when typing?



Voice assistant



Video game



Streaming service



Smartphone keyboard

So... What IS Artificial Intelligence?

Artificial Intelligence (AI) is when computers learn to do things that usually require human thinking and decision-making.

Learn

Patterns

Smart Decisions



How Does AI Learn? The Pet Analogy 🐕

Teaching a Dog

1. Show the trick many times
2. Give treats when correct
3. Practice, practice, practice
4. Dog learns the pattern!

Teaching AI

1. Show many examples
2. Tell AI if correct or wrong
3. Give more examples
4. AI learns the pattern!

AI is REALLY Good at Finding Patterns


Example Pattern:

Cloudy sky → Rain later  

AI looks at LOTS of examples to find patterns:

 **Thousands of cat pictures** → Recognizes cats

 **Millions of chess games** → Plays chess well

 **Your music choices** → Suggests songs you'll like

 **Weather data from years** → Predicts tomorrow's weather

Where Do We See AI Every Day?



Voice Assistants

Alexa, Siri, Google

"Hey Siri, what's the weather?"



Recommendations

Netflix, YouTube, Spotify

"You might like this video!"



Photo Recognition

Phone photo apps

"Search for pictures of dogs"



Smart Typing

Predictive text

"I am go..." → "going"

More AI in Our World!



Video Games

Computer opponents that get better the more you play



Healthcare

Helping doctors find diseases in X-rays



Transportation

Self-driving cars (being tested!)



Smart Homes

Thermostats that learn when you like it warm or cool



Security

Face recognition to unlock your phone



Email

Spam filters that block junk mail

Human vs. AI: Who Does What Best?

Let's play a thinking game!

Activity Time! 

We're going to sort different tasks into three groups:

Humans Do Best

AI Helps

Both Work Together

Discussion: What Did You Discover?

After sorting your cards, think about these questions:

01

What makes some tasks better for humans?

03

Why do some tasks need BOTH?

02

What makes some tasks better for AI?

04

Can you think of a task we didn't include?

Humans + AI = Better Together! 🤝

AI doesn't replace humans.

AI helps humans work better and faster!

Humans are Best At:

- Creativity
- Empathy & emotions
- Complex decisions
- Teaching & learning

AI is Best At:

- Finding patterns
- Processing lots of data
- Repetitive tasks
- Fast calculations



Let's Watch AI Learn! (Demo Time) 🎓

Google's Teachable Machine

We're going to teach a computer to recognize different hand gestures!



Thumbs Up



Thumbs Down



Peace Sign

Watch how AI learns from examples, just like you do!

What Did We Learn from the Demo?

Key Takeaways:

✓ AI needs LOTS of examples to learn

✓ More training = Better performance

✓ AI can make mistakes (just like us!)

✓ AI learns from patterns in data

✓ Humans teach and guide the AI

Important Things to Remember About AI

AI is NOT like a human brain

It processes information differently and doesn't "think" like we do

AI learns from examples

The more good examples it sees, the better it gets

AI needs humans

Humans teach AI, check its work, and make important decisions

AI can make mistakes

Especially if trained on bad or incomplete data

Your Turn: AI Around Us!

Worksheet Time!

Find 3 examples of AI in your daily life

For each example, tell us:

01

Where do you see this AI?

02

What does it do?

03

How does it help people?

You can draw pictures or write your answers!



Share Your Discoveries! ✨

Let's hear about the AI you found!

Share with a partner first, then we'll hear from volunteers who want to share with the whole class!

☐ **Remember: There are no wrong answers!**

AI is everywhere once you start looking for it.

Exit Ticket Time!

Before you go, please answer:

1

What is one thing you learned about AI today?

2

What is one question you still have about AI?

Write your answers on your exit ticket!

Great Job Today! 🎉

You're now AI Experts!

Today you learned:



What artificial intelligence is



How AI learns from examples



Where we see AI in daily life



How humans and AI work together

Challenge: Talk to your family about AI tonight!

See how many AI examples you can find at home.

Resources & Credits

Recommended Resources for Further Learning:

- Google's Teachable Machine: <https://teachablemachine.withgoogle.com>
 - AI4K12 Initiative: <https://ai4k12.org>
 - Code.org AI for Oceans: <https://code.org/oceans>
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