

BRING AI AND CS TO YOUR CLASSROOM WITH SIMPLE CONVERSATIONS & ACTIVITIES

DIRECTIONS: Click on the activities below to 'Level Up' your knowledge and application of AI. Use the resources provided to help you. The activities become increasingly more complex the higher the plant pot!

LEVEL UP



CS ED WEEK & A.I.
CONVERSATION STARTERS AROUND IDEAS AND THEMES IN COMPUTER SCIENCE AND AI

DIRECTIONS: Use your expertise as an educator to adapt these questions to be developmentally appropriate for your grade level. Remember, there is never a bad time to talk about computer science- there are many ways to bring up these key ideas and themes!

General Concepts:

1. What is a computer? What are some things it can and can't do?
2. How do you think computers "learn" to do things like play games or recognize pictures?
3. What makes something "smart"? Can computers be smart like people?
4. If you could teach a robot to do anything, what would it be? Why?
5. What do you think the internet is, and how do we use it?

Creativity and Art:

1. What is creativity? Do you think computers can be creative? Why or why not?
2. What makes something art? Could a computer create art? Would it still be art?
3. Can a song or a picture made by a computer have emotions? Why or why not?
4. What's the difference between a tool (like a paintbrush or computer) and an artist?

Problem-Solving and Logic:

1. What kinds of problems do you think computers help us solve?
2. How do you think a computer knows what to do when you press a button or click on something?
3. What steps would you tell a robot to follow to make a sandwich?
4. What do you think would happen if a computer made a mistake? How could it fix it?
5. Why is it important to check if the information a computer gives you is true?

Ethics and Society:

1. What would you want a robot to do to help at school or home? What things should robots NOT do?
2. Do you think it's fair for a robot to decide who gets a prize or a job? Why or why not?
3. If a robot could understand feelings, do you think it would have feelings like us?
4. How should we decide what jobs robots or computers are allowed to do?
5. Do you think AI can be a friend? Why or why not?

Future and Imagination:

1. What do you think the world will look like in 20 years with new technology?
2. If you could invent any kind of robot or AI, what would it do?
3. What would happen if computers and robots suddenly stopped working for a day?
4. How do you think people and computers can work together to solve big problems, like protecting the environment or helping sick people?
5. Do you think robots will ever become as common as pets? Why or why not?

AI-Specific Themes:

1. How do you think Siri, Alexa, or Google know how to answer questions?
2. What's the difference between a computer following instructions and someone learning something new?
3. Do you think AI can make decisions? What's the difference between a decision made by a person and a decision made by AI?
4. Can AI be creative, or is it just copying things people have already done?
5. Do you think AI will ever be as smart as humans? Why or why not?

Questions to Consider When Upper-Grade Students are Engaging With AI Questions from "Five Big Ideas in AI"

RAISE Playground
Interactive AI made easy, creative, and fun

Get into coding with AI
MIT Raise Playground

Developmentally Appropriate! **CS ED WEEK & A.I.**
AI CONVERSATIONS AND ACTIVITIES CHOICE BOARD

	UNPLUGGED	PLUGGED IN: AI ACTIVITIES	PLUGGED IN: CS + AI ACTIVITIES
TK - 2 Engage	CS and AI Conversation Starters Common Sense Digital Citizenship Activities, Grades T-2 ISTE AI Hands-on Project Guide: Ethics (Use Project 1)		
3 - 8 Experiment & Deepen	CS and AI Conversation Starters Common Sense Digital Citizenship Activities, Grades 3-8 Machine Learning Unplugged Computer Science Unplugged Waveforms and Spectrograms Speech Recognition Demo AI for Global Good (with video) AI Inclusiveness (with video) ISTE AI Hands-on Project Guide: Ethics (Use Project 2, can navigate around search engine as a lesson tool)	Google Arts & Culture • Say What You See • Guess the Line • Musical Canvas • Odd-one-out • X-Y-Z • Opera Blobs • Quick Draw Make sure to preview any activities to ensure they are appropriate. ISTE AI Hands-on Project Guide: Elementary School AI MIT Literacy Units (Appropriate for Grades 7-12 ready for some experience with coding)	code.org AI for Oceans code.org Dance Party: AI Edition How AI Makes Decisions Coding with AI Generative AI for Humanities
9 - 12 Expand & Create	CS and AI Conversation Starters Any of the activities for middle school can be adapted Watch and discuss the videos in Google Labs Human Intelligence X Artificial Intelligence Experiment	ISTE AI Hands-on Project Guide: Secondary ISTE AI Hands-on Project Guide: Computer Science ISTE AI Hands-on Project Guide: Electives ISTE AI Hands-on Project Guide: Ethics (Use Project 3) MIT Literacy Units (Appropriate for Grades 7-12 ready for some experience with coding) Google Teachable Machine AI 4 All Resources	resources at Code.org Coding with AI Generative AI for Humanities

Not all resources listed here are not exhaustive. Always follow federal and state laws, and guidance from your school or district leadership when engaging with AI. Be the "human in the loop."

Explore and use an activity from the AI Activities & Conversations

CS Heroes

Engage in a CS Heroes lesson with your class

Start a conversation with your classroom about AI and CS big ideas!