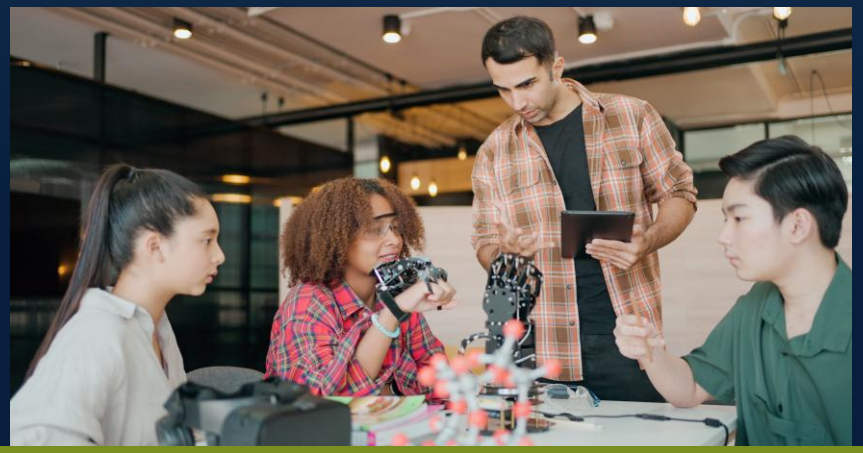






National Girls Collaborative Project

Building AI Literacy for Inclusion in STEM: Tools and Resources to Empower Educators

November 3, 2026

AMD Ingenia STEM NEXT OPPORTUNITY FUND

NGCP VISION





The vision of the National Girls Collaborative Project is to **support and create STEM experiences that reflect the world we live in.**

National Girls Collaborative Project

AMD Ingenia STEM NEXT OPPORTUNITY FUND

NGCP RESOURCES

- Webinars offered regularly on relevant topics. Speakers include educators, researchers, authors, and diverse STEM professionals.
- Monthly newsletter sharing national events, STEM resources for girls and youth, professional development opportunities for educators, and research and reports.
- The NGCP website shares exemplary practices, blog posts, statistics, and research related to girls and women in STEM.



NGCP Podcast: Inspiring Curiosity from Early Childhood to Break Gender Stereotypes

In our first episode, we explore the crucial role of early childhood experiences in shaping girls' interest and engagement in STEM



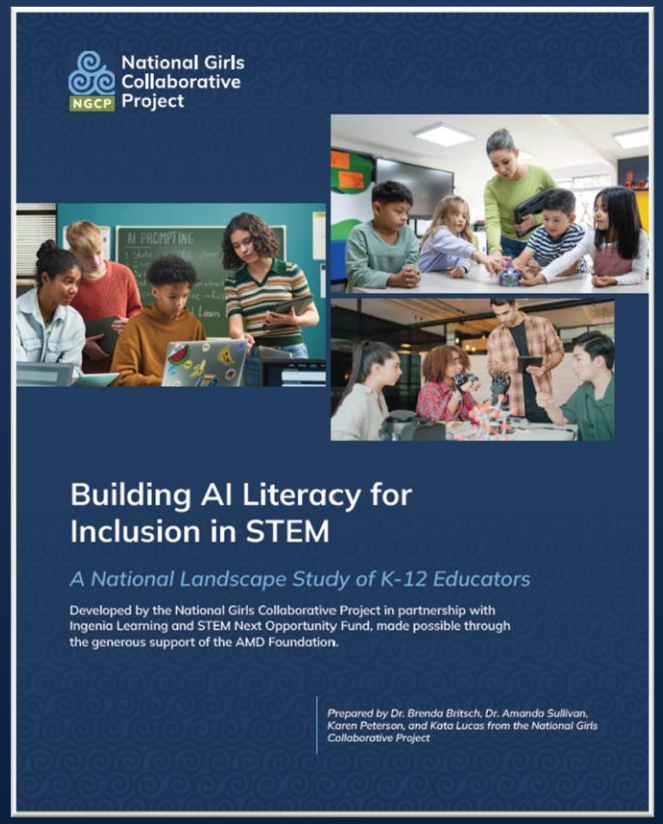
5 Ways to Be an Ally to Girls and Women in STEM

If you think of gender equity in STEM as a "women's issue" we encourage you to think again!

National Girls Collaborative Project NGCP

AMD Ingenia STEM NEXT OPPORTUNITY FUND

BUILDING AI LITERACY FOR INCLUSION IN STEM



- A national initiative designed to better understand the current state of AI literacy across STEM learning environments.
- Developed by NGCP in partnership with Ingenia Learning and STEM Next Opportunity Fund, made possible through the generous support of the AMD Foundation.
- Read the Landscape Study and view the webinar recordings on NGCP's website

National Girls Collaborative Project
NGCP

AMD Ingenia STEM NEXT OPPORTUNITY FUND

SPEAKERS



Dr. Ebony Brown
Brown Girls in Tech



Micah Kennedy
CodeAI



Safoura Seddighin
UC Irvine Digital Learning Lab

National Girls Collaborative Project
NGCP

AMD

Ingenia

STEM NEXT
OPPORTUNITY FUND

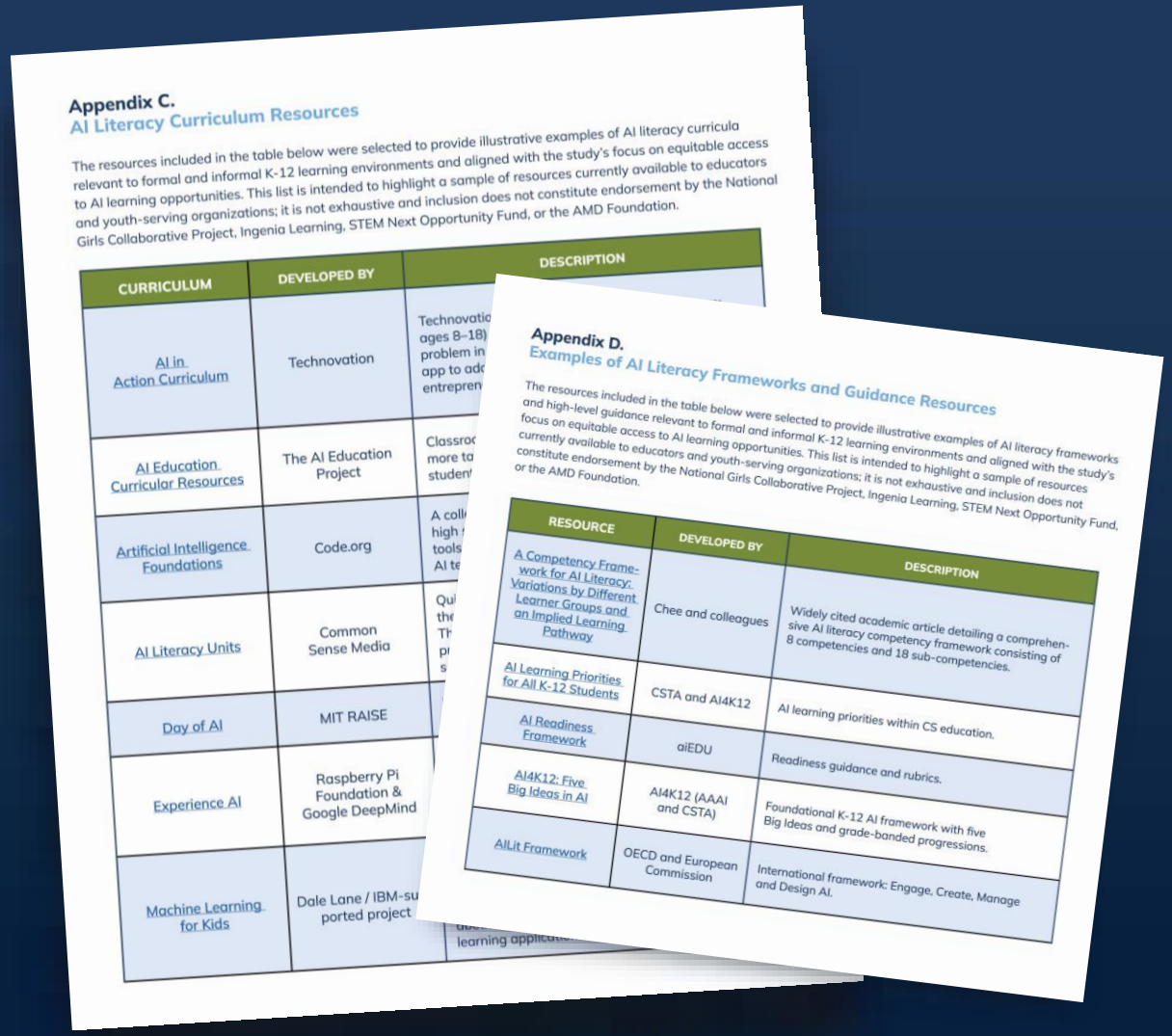
RESOURCES

Curriculum Resources

Find a collection of AI literacy focused curricular resources in Appendix C

AI Literacy Frameworks and Guidance Resources

Find a collection of frameworks and high-level guidance resources in Appendix D



Appendix C.
AI Literacy Curriculum Resources

The resources included in the table below were selected to provide illustrative examples of AI literacy curricula relevant to formal and informal K-12 learning environments and aligned with the study's focus on equitable access to AI learning opportunities. This list is intended to highlight a sample of resources currently available to educators and youth-serving organizations; it is not exhaustive and inclusion does not constitute endorsement by the National Girls Collaborative Project, Ingenia Learning, STEM Next Opportunity Fund, or the AMD Foundation.

CURRICULUM	DEVELOPED BY	DESCRIPTION
AI in Action Curriculum	Technovation	Technovatio ages 8–18) problem in app to ad entrepren
AI Education Curricular Resources	The AI Education Project	Classroo more ta student
Artificial Intelligence Foundations	Code.org	A colle high tools AI te
AI Literacy Units	Common Sense Media	Qui the Th pr s
Day of AI	MIT RAISE	
Experience AI	Raspberry Pi Foundation & Google DeepMind	
Machine Learning for Kids	Dale Lane / IBM-su ported project	learning applicat

Appendix D.
Examples of AI Literacy Frameworks and Guidance Resources

The resources included in the table below were selected to provide illustrative examples of AI literacy frameworks and high-level guidance relevant to formal and informal K-12 learning environments and aligned with the study's focus on equitable access to AI learning opportunities. This list is intended to highlight a sample of resources currently available to educators and youth-serving organizations; it is not exhaustive and inclusion does not constitute endorsement by the National Girls Collaborative Project, Ingenia Learning, STEM Next Opportunity Fund, or the AMD Foundation.

RESOURCE	DEVELOPED BY	DESCRIPTION
A Competency Framework for AI Literacy: Variations by Different Learner Groups and an Implied Learning Pathway	Chee and colleagues	Widely cited academic article detailing a comprehensive AI literacy competency framework consisting of 8 competencies and 18 sub-competencies.
AI Learning Priorities for All K-12 Students	CSTA and AI4K12	AI learning priorities within CS education.
AI Readiness Framework	aiEDU	Readiness guidance and rubrics.
AI4K12: Five Big Ideas in AI	AI4K12 (AAAI and CSTA)	Foundational K-12 AI framework with five Big Ideas and grade-banded progressions.
AILit Framework	OECD and European Commission	International framework: Engage, Create, Manage and Design AI.

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NGCP

CREATE + CONNECT = COLLABORATE

Learn more at **ngcproject.org**

National Girls Collaborative Project

AMD Ingenia STEM NEXT OPPORTUNITY FUND

Future *Me*

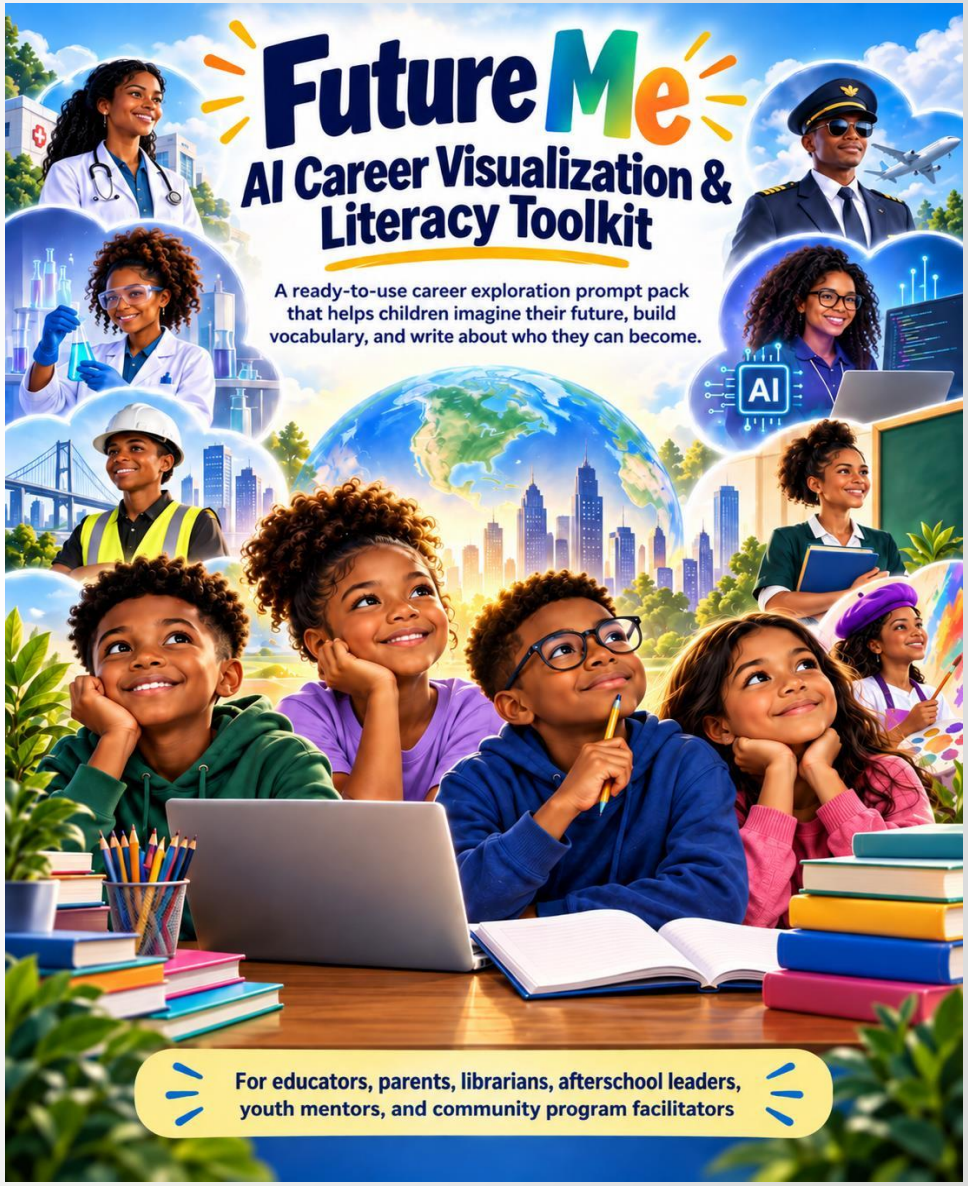
Imagine it. Write it. Become it.

for Grades 3 to 8

"Future Me"

AI Career Visualization & Literacy Toolkit.

Brown Girls In Tech | icanbooks.com



BUILDING AI LITERACY FOR INCLUSION IN STEM:

TOOLS & RESOURCES TO EMPOWER EDUCATORS

FREE Download

A Parent's Guide to AI & Career Conversations



DR. EBONY BROWN

creator of '***Future Me'*** Toolkit & iCanBooks.com

BROWNGIRLSINTECH@GMAIL.COM

Let's imagine a child's future.

CHAT PROMPT • If you could help a child visualize themselves in ANY future career, what career would you choose?

TYPE YOUR CAREER IN THE CHAT

Artist • Engineer • Game designer • Pediatrician • Anything!

Access alone isn't AI literacy.

What makes it hardest to introduce AI or future-focused technology to young people?

A Time is limited

B I'm not confident teaching AI

C I need help choosing safe, age-appropriate tools

D I need ready-to-use activities

Future *Me* turns curiosity into a learning experience.

A simple, adult-guided journey—not just an AI-generated image.

EXPLORE

Start with a child's interests and career questions.

IMAGINE

Use a guided, age-appropriate AI activity to visualize a possible future.

REFLECT

Connect the experience to career skills, conversation, reading, and writing.

The adult remains the facilitator.
The child remains the learner.

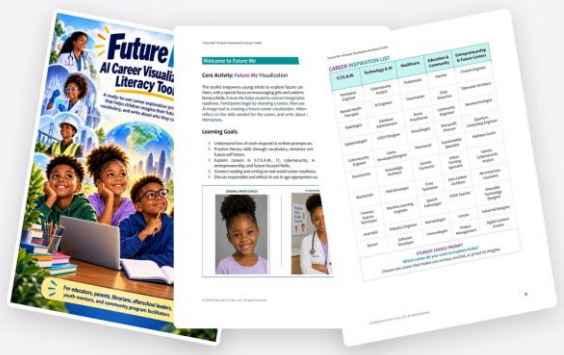
Future *Me* TOOLKIT

BROWN GIRLS IN TECH

FUTURE ME SERIES

Future Me Workshop-in-a-Box

Complete Turnkey License with Facilitator Slide Deck



Turnkey Workshop | 1-Year License

Digital Delivery • Ready to Run the Same Day



Career Vocabulary, Paragraph Writing & Family Literacy



Grades 3-12 | 8 pages

Printable PDF • Print-and-Go

You choose the career. We'll follow the child's curiosity.

CHAT: Which career should we explore for a child who loves creating and solving problems or helping people?

1. Digital artist
2. Video game designer
3. Robotics engineer
4. Cybersecurity specialist
5. Pediatrician

Watch the learning unfold.

1 INTEREST

“I love helping people.”

2 PROMPT

Use the toolkit's actual guided prompt/workflow.

3 VISUALIZE

Reveal the prepared or live career visualization.

4 REFLECT

Ask: What skills might this career use? What would you learn next?

“What do you predict the child might notice or ask?”

AI can be a tool. Adult guidance is the framework.

PREPARE

Review the activity, tool age requirements, privacy terms, and organizational policies.

GUIDE

Use approved prompts and tools. Keep the activity supervised and age-appropriate.

QUESTION

AI can be wrong. Discuss what the image can—and cannot—tell us about a real career.

No tech expertise required to facilitate—but thoughtful preparation and supervision still matter.

Our Safe AI Promise

1

An adult runs the tool

Students write; the facilitator types, uploads, and clicks.

2

Fictional photos only

We use AI-generated children from the Starter Pack, never real photos of students.

3

No personal information

No names, schools, or neighborhoods in any prompt.

4

We check the results

Every image is reviewed by an adult before anyone sees it. Wrong or unkind? Regenerate.

Today's *Future Me* journey

1	2	3	4	5
10 min	**10 min**	**15 min**	**15 min**	**10 min**
Welcome + What is AI?	Choose a career	Write the prompt	Generate the image	Write + share

By the end, every student will **choose a career, write a descriptive AI prompt, see a Future Me image, and write about who they can become.**

What is AI?

10 minutes

1

Learns from examples

AI studies millions of pictures and sentences so it can make new ones.

2

Follows our words

Our prompt tells it what to make. Clear, descriptive words get better results.

3

Can be wrong

AI guesses. It can get details wrong or be unfair, so people always check its work.

AI is a tool. Our words guide the tool, and our judgment decides whether the result is helpful, accurate, respectful, and safe.



Portrait 01
AI-generated, fictional



Portrait 02
AI-generated, fictional



Portrait 03
AI-generated, fictional





Note on Portrait 05:
generated in black and white. It works for age-progression, but add "full color, natural skin tones" to the prompt so the future-self image renders in color.

Transform this child into a realistic adult version of themselves at approximately 30 years old. Preserve their skin tone, eye shape, smile, facial structure, hair texture, and overall resemblance so the adult looks like a natural age-progressed version of the child, not a different person. Show the adult working as a successful Pediatrician in a bright, modern children's medical clinic. They are wearing a white doctor's coat, professional clothing, and a stethoscope. The clinic should feel welcoming, colorful, clean, and child-friendly, with medical tools, children's books, and warm lighting. The adult should look compassionate, confident, intelligent, trustworthy, and successful. Make the image photorealistic with natural facial details, realistic lighting, professional photography, and highly detailed surroundings.

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"Future Me" AI Career Visualization & Literacy Toolkit

Career Example: PEDIATRICIAN

Example of output using Pediatrician as the career choice.

Use this page as a model for how one career choice becomes an AI image prompt, vocabulary activity, writing prompt, and student reflection.

Career Vocabulary	**Pediatrician, doctor, clinic, stethoscope, patient, checkup, compassionate, helpful, healthy, community**
Image Prompt	Transform this child into a realistic adult version of themselves at approximately 30 years old. Preserve their skin tone, eye shape, smile, facial structure, hair texture, and overall resemblance so the adult looks like a natural age-progressed version of the child, not a different person. Show the adult working as a successful Pediatrician in a bright, modern children's medical clinic. They are wearing a white doctor's coat, professional clothing, and a stethoscope. The clinic should feel welcoming, colorful, clean, and child-friendly, with medical tools, children's books, and warm lighting. The adult should look compassionate, confident, intelligent, trustworthy, and successful. Make the image photorealistic with natural facial details, realistic lighting, professional photography, and highly detailed surroundings.
Future Self Letter Prompt	Write a letter from my future self to my younger self. I am now a successful Pediatrician. Tell me what challenges I overcame, what I learned in school, why reading and writing mattered, why I should keep believing in myself, and how I now help children and families in my community. Make the letter encouraging, inspiring, and written at a 4th-grade reading level.
Student Reflection Example	I can become a Pediatrician because I care about children, I like helping people feel better, and I am willing to keep learning.
Image	**PEDIATRICIAN BEFORE + AFTER IMAGE**

Meet a *Future Me*





A fictional, AI-generated child (left) imagined as a pediatrician (right). The photo is not real, and the future is not a prediction. It is imagination we can write about.

Meet a *Future Me*



A fictional, AI-generated child (left) imagined as a pediatrician (right). The photo is not real, and the future is not a prediction. It is imagination we can write about.

How a prompt works

Still block 1

WHO	CAREER	ACTION	SETTING	DETAILS	STYLE
a curious student	*Pediatrician*	*Standing*	*in a modern children's medical clinic*	*lab coat, stethoscope, smiling*	*realistic photo*

A curious student working as a **PEDIATRICIAN, standing in a modern children's medical clinic, wearing a lab coat with a stethoscope and smiling, as a realistic photo.**

More describing words = a better picture. That is the same skill as good writing.

Write your prompt

15 minutes

CAREER	What is your future self's job?
ACTION	What are they doing right now?
SETTING	Where does this career happen?
CLOTHING / UNIFORM	What do they wear to work?
TOOLS / EQUIPMENT	What do they use?
FEELING / TRAITS	confident, successful, kind, focused

MY FINISHED PROMPT

Combine your boxes into two or three sentences on the Build My AI Prompt worksheet. Start with: "Show a realistic adult version of this child working as a..."

Checklist: career named, one action, one place, two details, one feeling word.

What did the AI get right? What did it get wrong?

How did your words change the picture?

What detail made your prompt stronger?

Did anything look inaccurate or like a stereotype?

Why should we check AI results before believing or sharing them?

How can AI help us imagine our future?

What should adults do to keep students safe with AI tools?

Generate the Future Me image

15 minutes





Fictional portraits from the Sample Image Starter Pack

While you wait: students write the sentence starter on the Reflection worksheet: "I can become a ____ because ____."

1. Student picks a portrait from the Starter Pack (never a real photo).
2. Facilitator pastes Template 2 from the toolkit, then adds the student's prompt details.
3. Generate. Review the image privately first.
4. Looks right? Show it and say one thing the words did well. Not right? Add detail and try again.

Write your future

10 minutes

One sentence

I can become a _____ because _____.

Grades 3-4 or a short session

Five-sentence paragraph

What the career does, skills needed, why reading and writing matter, how it helps others, "I can become..."

Grades 4-6

Letter to my future self

"Dear younger me..." What challenges did you overcome? What did you learn? How do you help your community now?

Grades 5-8 and family nights

Share and celebrate

Each student shares one skill they can start building now.

I can imagine my future.
I can write my future.
I can build my future.
I can become what I see.

Read the affirmation aloud together to close.

Keep the journey going

1

Gallery Walk

Display images and writing; students leave positive notes.

2

Vocabulary Wall

Post new career words and student definitions.

3

Family Interview

Send the Family Worksheet home; compare a relative's career.

4

Vision Board

Combine career words, book quotes, drawings, and approved images.



Continue with the **"I Can See..."** career book series on **icanbooks.com** and the full Future Me Toolkit at **whoamidesigns.com**

All 4 digital books are included in the "Future Me Workshop in a Box".

Choose your career

10 minutes

S.T.E.A.M.	Aerospace Engineer, Biochemist, Journalist
Technology & AI	AI Engineer, Game Designer, Robotics Engineer
Healthcare	Pediatrician, Veterinarian, Pharmacist
Education & Community	Teacher, Lawyer, Community Organizer
Future Careers	Quantum Engineer, Wearable Tech Designer

PICK THREE

Look through the career cards, the Career Inspiration List, or the "I Can See..." books.

Write three careers that make you curious on the My Career Choices worksheet.

Circle the one you want to imagine today.

A simple way to begin.

01

PREPARE

Choose an activity and review the materials.

02

EXPLORE

Invite children to connect interests to careers.

03

REFLECT

Discuss skills, ask questions, and write or share a takeaway.

CHAT: Where could you try this—classroom, afterschool, library, career day, or community program?

Bring the conversation home.

Free family resource

A Parent's Guide to AI & Career Conversations

Simple, safe ways to explore AI and future careers with a child. Families do not need to be technology experts to start the conversation.



Free digital download

whoamidesigns.com • Future Me collection

CHAT COMMITMENT: “One way I could help a child explore their future is…”

Thank you for helping children see themselves in the future.

"Future Me" AI Career Visualization & Literacy Toolkit
Brown Girls In Tech, LLC | icanbooks.com | browngirlsintech@gmail.com

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CodeAI Resources

CODEAI

ABOUT CODEAI

Every student, every school

CodeAI is an education innovation nonprofit working to make digital fluency part of every student's K–12 education.



1

DIGITAL FLUENCY

CODE AI

Digital Fluency

The ability to understand, direct, question, and create with the technology shaping our lives.

- Builds technical knowledge and durable skills.
- Helps students make informed decisions about when, why, and how AI is used.



CODEAI

Digital Fluency

Digital Fluency Is

💡 Knowing how AI works & where it is used

✅ Checking, questioning, and improving outputs

🧠 Applying human judgment, reasoning, and ethics

🌍 Creating with AI responsibly & safely

Digital Fluency Is NOT

🔤 Memorizing complex technical jargon

🤖 Blindly trusting or fearing AI as ”magical”

🧱 Only programing

❌ Using AI without critical thought or oversight

CODE AI

Examples from the Classroom

🔎 Understand

A 4th-grade class sorts animal pictures and explains how the examples used to train an AI system could affect its predictions.

🎯 Direct

An 8th-grade student asks AI to suggest ways to reduce cafeteria waste, specifying that ideas must fit the school's budget and avoid single-use plastics.

🤔 Question

A 10th-grade class checks an AI-generated summary against the original article, identifying errors, missing perspectives, and potentially biased claims.

🎨 Create With

A 7th-grade class develops a conservation poster using a teacher-led AI activity, checks suggested facts, and revises the wording and design to communicate students' own message.

2

AI 101

PROFESSIONAL LEARNING

CODE AI

AI 101 Self-Paced Professional Learning

A free, foundational online course for any educator interested in AI and its potential in education.

- Five one-hour modules
- No prior experience needed
- No programming required
- Earn certificates of completion
- Recent, relevant content
- Build digital fluency

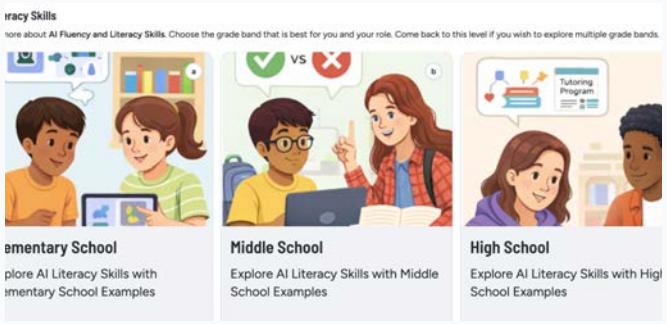
Learn More →

Developed with a Focus on Engagement

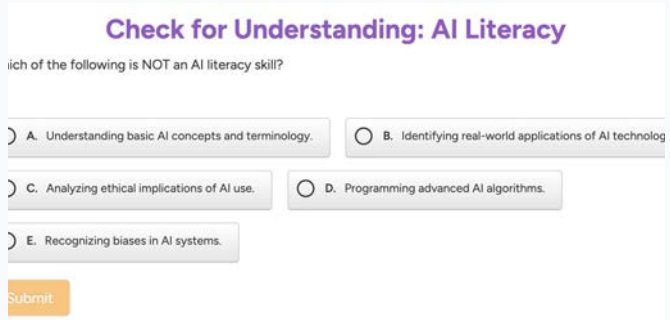
Videos



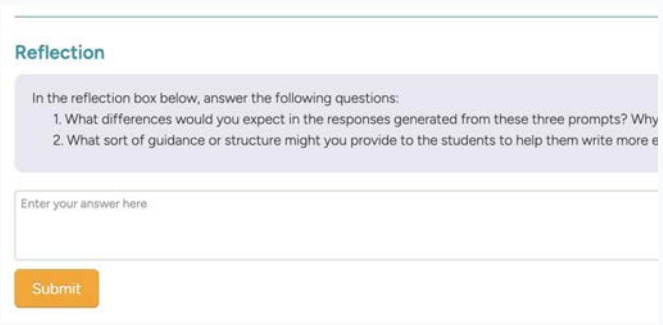
Differentiated Content



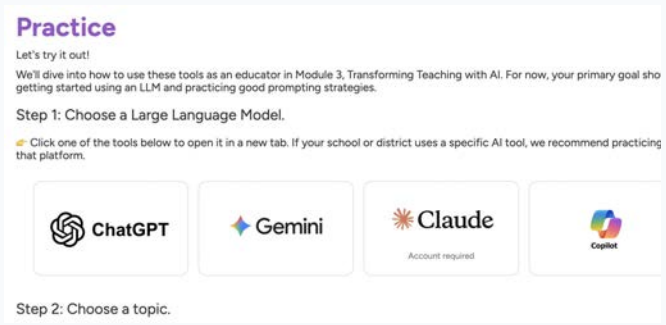
Checks for Understanding



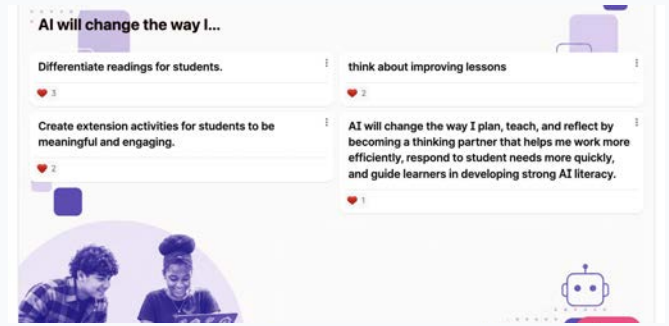
Scenarios and Reflections



Hands-On Practice



Community Engagement



3

CURRICULUM RESOURCES

CODE AI

Extensive Curriculum Catalog

01

AI for Oceans

Grades 3–12 · one lesson

Discover how AI learns by training a model to solve a real-world problem.

Learn More →

02

AI Discoveries

Grades 6–8 · school year

Explore how AI works, where it's used, and the opportunities and challenges it creates.

Learn More →

03

AI Foundations

Grades 9–12 · two semesters

Build a strong understanding of AI through hands-on projects, core concepts, and responsible AI practices.

Learn More →

CODE AI

Prepare to Teach

FACILITATOR-LED

6-12 Teacher Workshops

- Engaging, hands-on sessions
- For new and experienced teachers
- Live facilitator support

Best if you want structure and real-time interaction.

View Workshops →

SELF-PACED / ONLINE

Self-Paced Professional Learning

- Learn on your own schedule
- Develop your own understanding first
- Prepares you to teach

Best if you want flexibility and independence.

Explore Courses →

4

HOUR OF AI

CODE AI

Hour of AI

Any classroom. No experience required.

AI is already part of every student's world — the Hour of AI gives them a first step toward actually understanding it.

- Fun, one-hour activities that bring AI to life
- Hands-on for every grade level
- Take a first step toward digital fluency
- Appropriate for a classroom or outside of school experience

BY THE NUMBERS

250+
Hands-on activities

10M
Students reached

200+
Countries and territories

CODE AI

Activities for every classroom

01

AI for Oceans

Grades 3–12. Train a real model to identify sea creatures and trash in the ocean.

02

Mix & Move with AI

Grades 2–12. Design a dancer, mix music, and choreograph a dance routine - all with AI.

03

Music Lab: Jam Session

Grades 2–12. Remix tracks and generate beats with AI while exploring coding basics.

New activities to launch Nov. 16th!

Celebrate CSEdWeek with an Hour of AI

WHAT IT IS

Computer Science Education Week

An annual call to action to inspire K–12 students to learn computer science.

WHEN IT HAPPENS

Early December

Held each year the week of December 9, Grace Hopper's birthday.

CODE AI

Learning Series

Free webinars for educators

Learn More

Tuesday, November 17th - 7 p.m ET / 4 p.m. PT

Hour of AI Showcase

A walkthrough of this year's new Hour of AI activities across grade bands, plus ways to extend learning beyond the event.

Register →

Launching Monday, November 16th

Hour of AI Professional Learning

A professional learning module that helps K–12 educators build foundational AI knowledge, guide student conversations, and plan an engaging Hour of AI for their classroom.

Stay tuned for launch details!

CODEAI

TAKEAWAYS

1. Check out AI 101 for Educators
   Complete the self-paced course.

2. Explore the CodeAI Curriculum Catalog
   Find the next AI lesson, unit, or course for your students.

3. Plan your Hour of AI
   Join the global education movement.

BEYOND USING AI

Familiar teaching practices • practical AI learning resources

Safoura Seddighin | UCI Digital Learning Lab

NGCP • Building AI Literacy for Inclusion in STEM



AI is new. Good teaching practices are not.

Three familiar questions can guide us when we bring AI into learning.

UNDERSTANDING

What are students learning about AI?

Can they question and check what AI produces?

STUDENT THINKING

Who is doing the thinking?

Do students predict, decide, test, and revise?

PARTICIPATION

Who gets to participate?

Can beginners participate meaningfully, too?

Start from what you already do: ask • explore • make • reflect

Computing and AI for All

Free entry points that build on inquiry, creativity, and inclusive teaching.

ACT 1–3

Scratch Create → Design → Impact

Grades 4–6

AI Literacy

Prediction • training data • bias

40–45 minute entry points

Science Inquiry Studio

Investigate phenomena with AI

Grades 6–8

Computing + AI

Creative and agentic coding

Grades 6–8

Choose one starting point; adapt it to the learners you already teach.

Start with a familiar move: predict, test, discuss

An AI literacy activity can begin with a question, not a new platform.

HOW DOES AI WORK?

DATA → PATTERNS → PREDICTION

Where could bias enter?

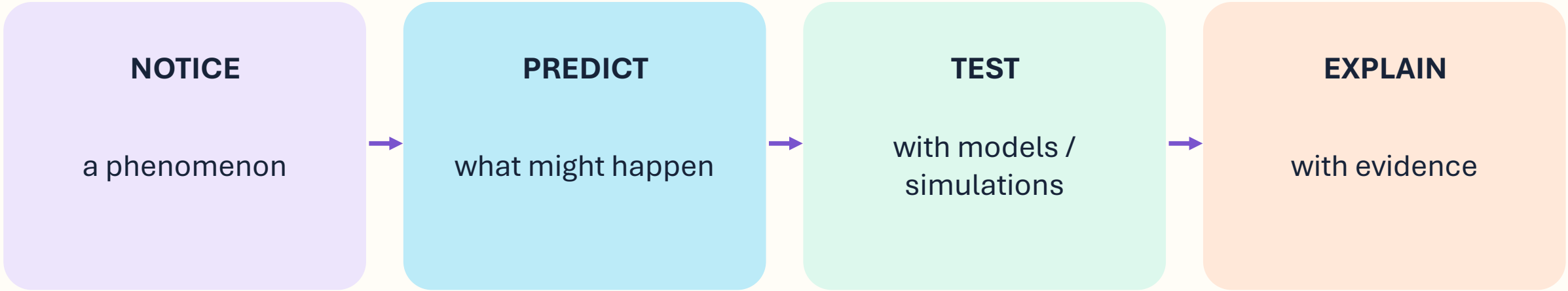
TRY THIS IN A LESSON

1. Ask students to predict
2. Try an AI-generated response
3. Look for gaps or bias
4. Discuss what needs checking

curriculum.computingandaiforall.org/ai-literacy.html

Science inquiry: a familiar pathway into AI

Begin with a phenomenon. Keep students asking, testing, and explaining.

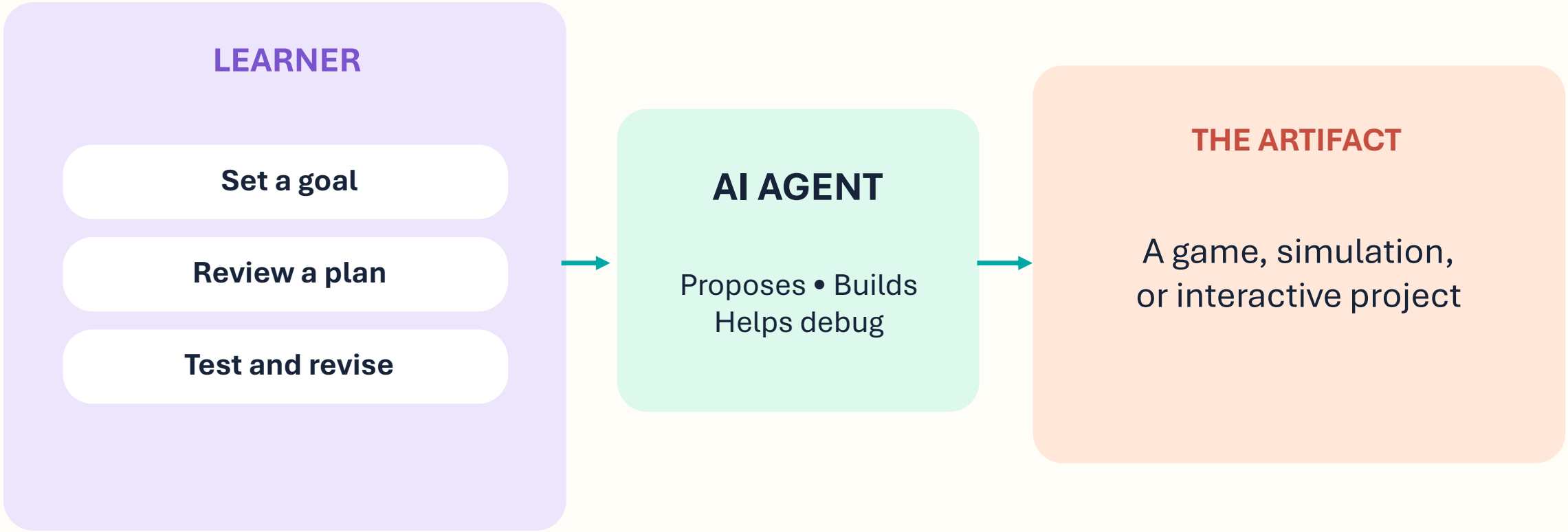


AI can support exploration; evidence and explanations still come from learners.

Explore: curriculum.computingandaiforall.org/science-inquiry-studio.html

Creative coding: keep students in the driver's seat

Even when AI can build, learners can still plan, question, test, and revise.



Ask: What did the learner decide, understand, test, and change?

You can start with the teaching you already know

1	**Start with one question**	What do you want students to investigate?
2	**Add one AI-supported step**	Where might AI help them explore or create?
3	**Keep student thinking visible**	What will they predict, explain, test, or revise?

Explore the free curriculum curriculum.computingandaiforall.org

Thank you!