

Educational Leadership in the

Age of AI

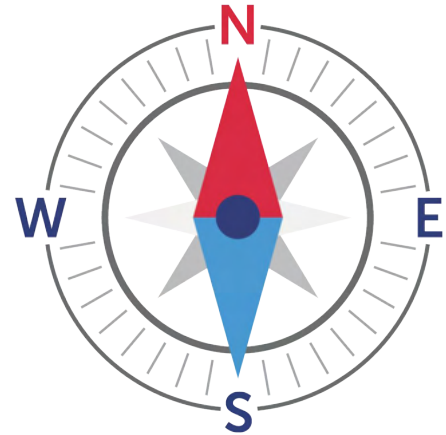


Navigating AI Literacy in K-12: Insights for Educators and Leaders

Welcome!

Please introduce yourself in the chat

- Name and role
- District/organization and state
- Something you are hoping to learn today



About the Facilitators



Keun-woo Lee

*Learning Experience Designer,
Digital Promise*

Agenda

1. Big Ideas: Overview
2. Show, Not Tell: Activity
3. Panel Discussion
4. Audience Q&A



Nacho Kamenov & Humans in the Loop / Better Images of AI / A trainer instructing a data annotator on how to label images / CC-BY 4.0

Housekeeping

- Put **all questions** for the speakers and panelists in the **Zoom Q&A**
- Use the **Zoom Chat** to add your comments if you agree (+) with anything you see or hear during today's session

About the Facilitators



Kelly Mills

*Director, Learning Pathways
Design, Digital Promise*

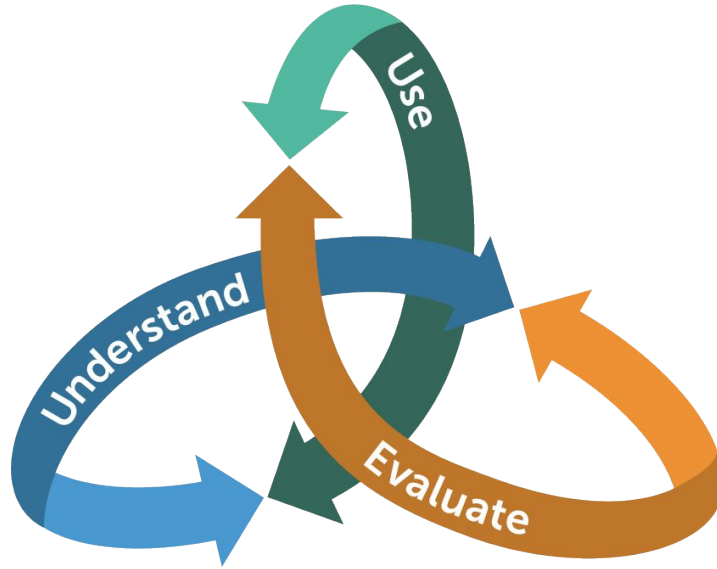
Big Ideas

1. AI Literacy includes skills to **use, understand and evaluate** AI systems and tools
2. **Foundational skills** that are essential for AI Literacy are related to existing initiatives in education
3. Districts can **integrate AI Literacy** into K-12 education across grades and subjects

AI Literacy includes skills to
use, understand, and
evaluate AI systems and
tools

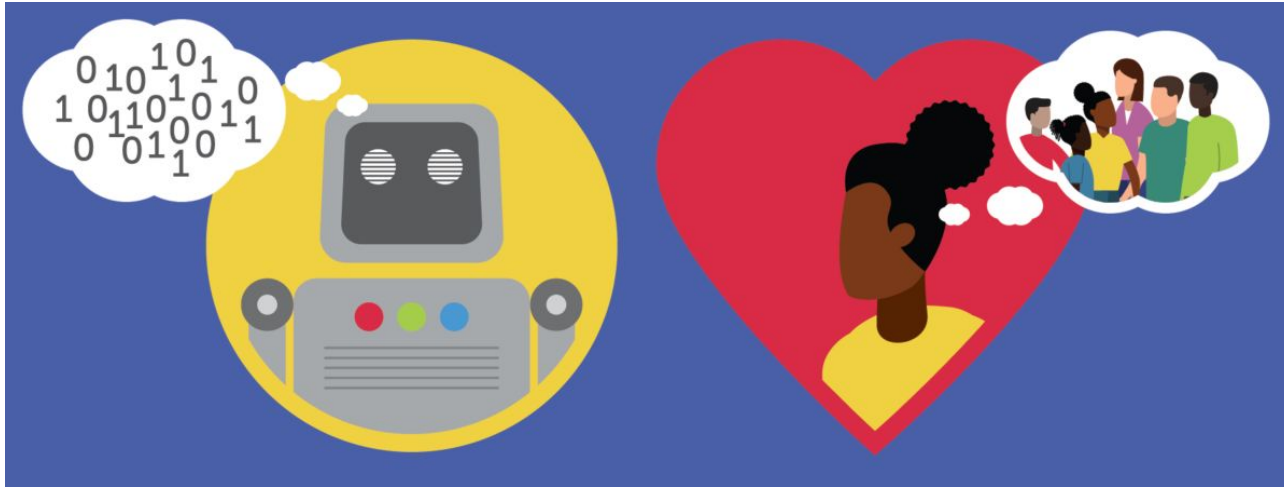
What is AI Literacy?

AI Literacy includes the knowledge and skills that enable humans to **critically understand, use, and evaluate AI systems and tools** to safely and ethically participate in an increasingly digital world.



AI Literacy

While AI tools are new, and likely intimidating for most people, the skills that we use to **critically understand, use, and evaluate technology** are more familiar



Foundational skills
essential for AI Literacy are
related to existing initiatives
in education

Foundational Literacies

Media Literacy

Digital Citizenship

Computational
Thinking

Foundational Literacies

Media Literacy

The ability to access, analyze, evaluate, create, and act using all forms of communication

(National Association for Media Literacy Education, 2024)

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Digital Citizenship

Thinking critically, behaving safely, and participating responsibly in the digital world

(Common Sense Media, 2017)

Computational Thinking

Foundational Literacies

Media Literacy

The ability to access, analyze, evaluate, create, and act using all forms of communication

(National Association for Media Literacy Education, 2024)

Digital Citizenship

Thinking critically, behaving safely, and participating responsibly in the digital world

(Common Sense Media, 2017)

Computational Thinking

Solving problems systematically so that a computer could support the process or product development

(Mills et al., 2021)



Interacting with AI

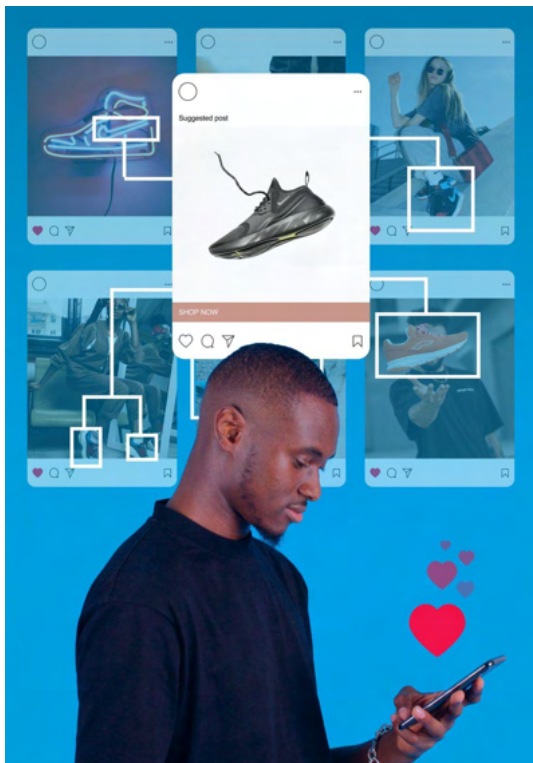


Image by Comuzi / © BBC / Better Images of AI / Likes (tall) / CC-BY 4.0

Media Literacy

Navigating the information landscape

Digital Citizenship

Data privacy and ownership

Computational Thinking

Selecting Tools

Problem Solving with AI



Max Gruber / Better Images of AI / Ceci n'est pas une banane / CC-BY 4.0

Media Literacy

Identifying bias in data collection

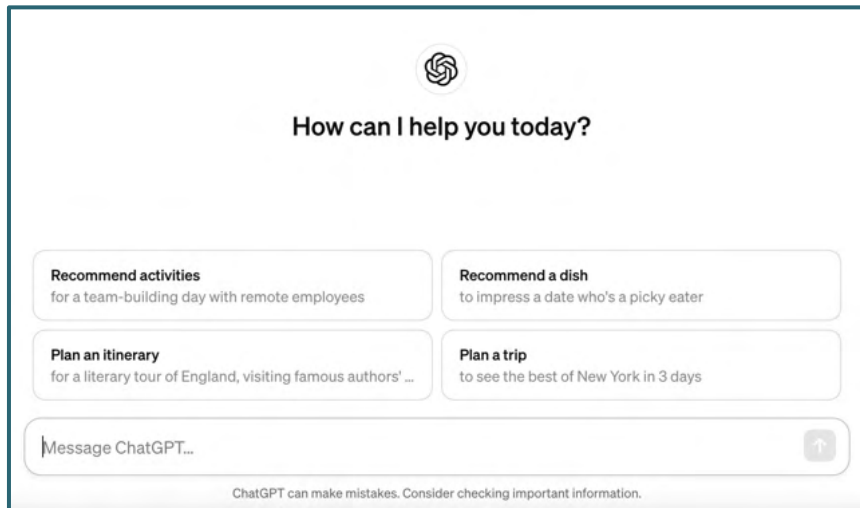
Digital Citizenship

Identifying appropriate applications to innovate solutions with AI tools

Computational Thinking

Algorithmic thinking, pattern recognition

Creating with AI



Media Literacy

Evaluating outputs
(e.g. audience, navigating misinformation)

Digital Citizenship

Appropriate and ethical application of
synthetic content
(e.g. citing appropriately)

Computational Thinking

Abstraction, decomposition, testing &
debugging
(e.g., articulating and modifying prompts)

Creating with AI Activity!

Activity: Creating with AI

- Have you ever used **ChatGPT**, **Gemini**, or another Large Language Model AI chatbot?

If **YES**, enter **1** in the chat

If **NO**, enter **0** in the chat


Show, Not Tell: ChatGPT Activity

1. Open ChatGPT

Open **ChatGPT** OR **aipedagogy.org**

Alternative if you do not have a ChatGPT account: aipedagogy.org/guide/tutorial/

Show, Not Tell: ChatGPT Activity



AI PEDAGOGY PROJECT
metaLAB (at) Harvard

[AI Guide](#) ▾ [Assignments](#) [About](#)

[Welcome](#) [Part 1: AI Starter](#) [Part 2: LLM Tutorial](#) [Part 3: Resources](#)


Large Language Model Tutorial

STEP 1: WELCOME

Welcome to the interactive portion of our AI Guide!

This is a brief introduction on how to use ChatGPT, a product created by OpenAI that is driven by a large language model. If some of those terms are unfamiliar, please review the glossary in Part 1: AI Starter. We are using ChatGPT as an example, but the following information applies to other large language models, such as those developed by Microsoft, Meta, Google, Anthropic, and others. This is not an endorsement of ChatGPT over the others. Future tutorials will cover image generation, code, and more.

We'll cover essential dos and don'ts, debunk common myths, and help get you prepared to use large language models on your own. Let's go!

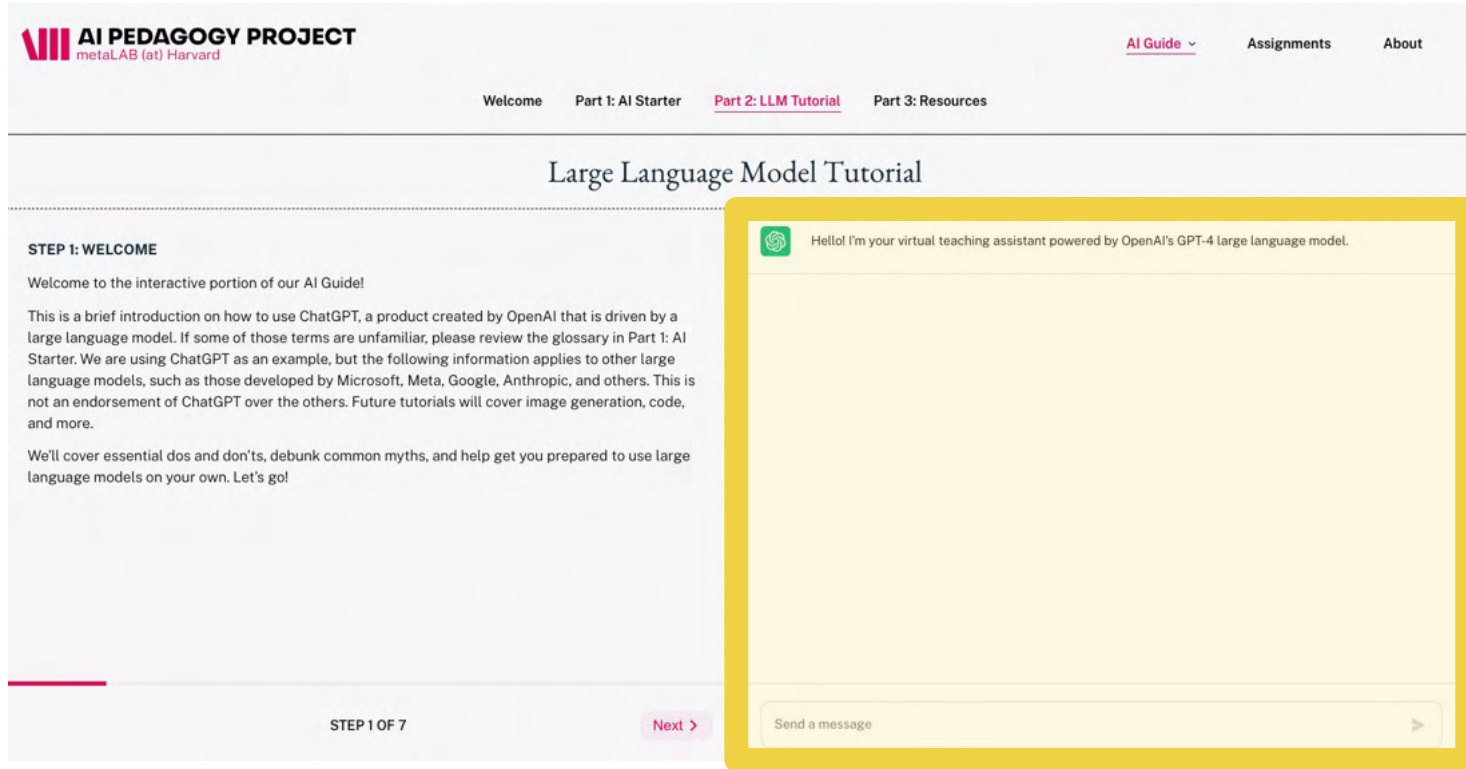


Hello! I'm your virtual teaching assistant powered by OpenAI's GPT-4 large language model.

STEP 1 OF 7 [Next >](#)

Send a message

Show, Not Tell: ChatGPT Activity



The screenshot displays the 'AI PEDAGOGY PROJECT' website, specifically the 'Part 2: LLM Tutorial' section. The page title is 'Large Language Model Tutorial'. The navigation menu includes 'Welcome', 'Part 1: AI Starter', 'Part 2: LLM Tutorial' (highlighted), and 'Part 3: Resources'. The main content area is titled 'STEP 1: WELCOME' and contains the following text:

Welcome to the interactive portion of our AI Guide!

This is a brief introduction on how to use ChatGPT, a product created by OpenAI that is driven by a large language model. If some of those terms are unfamiliar, please review the glossary in Part 1: AI Starter. We are using ChatGPT as an example, but the following information applies to other large language models, such as those developed by Microsoft, Meta, Google, Anthropic, and others. This is not an endorsement of ChatGPT over the others. Future tutorials will cover image generation, code, and more.

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At the bottom of the page, it says 'STEP 1 OF 7' and has a 'Next >' button.

On the right side, there is a yellow-bordered chat window with the OpenAI logo and the text: 'Hello! I'm your virtual teaching assistant powered by OpenAI's GPT-4 large language model.' Below the chat window is a 'Send a message' input field with a right-pointing arrow.

Show, Not Tell: ChatGPT Activity

2. Thank You Note Prompt

Imagine you are a student.

Begin with the prompt:

“Write a thank you note to my teacher”

Show, Not Tell: ChatGPT Activity

3. Refine / Evaluate

Examples of how to refine:

Providing more detail	<i>“Make the note more specific to my ___ grade [subj area] teacher who helped me with [specific skill/lesson]”</i>
Altering the tone	<i>“Edit the note to have a more ___ tone”</i>
Modifying the length	<i>“Revise to just 1 paragraph” or “Make this shorter/longer”</i>

Prompt refinement

Computational
Thinking

Decomposition - What are the different parts of the prompt?

“Write a thank you note for my teacher”

Abstraction - What are the most important parts of the prompt that I should keep? What can I change to get a more precise result?

“Write a thank you note for my teacher”

Evaluating the Output

Misinformation

Dear [Teacher's Name],

I hope this message finds you well. I am writing to express my sincere gratitude for the profound impact you had on my learning during my 9th-grade year as my math teacher. Your dedication and support, particularly in aiding my comprehension of fractions, were pivotal in shaping my understanding of mathematics.

One lesson, in particular, remains vivid in my memory: your innovative approach to teaching fractions through hands-on activities. By introducing various **tangible objects such as pizza slices, measuring cups, and colored blocks**, you transformed a seemingly abstract concept into a tangible, engaging learning experience. Your ability to make fractions not only understandable but also enjoyable is a testament to your exceptional teaching skills.

Reflecting on our time in the classroom, I am grateful for the foundational knowledge and skills you imparted to me. Your guidance has not only enriched my academic journey but has also **instilled in me a lifelong love for learning and problem-solving**.

Thank you once again for your dedication and for being such a positive influence in my life. **Your mentorship has left an indelible mark on my academic and personal development.**

With sincere appreciation,
[Your Name]

Evaluating Your Input

Digital Citizenship

Data Privacy Considerations:

- Age Restrictions (Must be **13+ Years Old**)
- Avoid Personal Identifiable Information (**PII**)

Evaluating Your Input

Digital Citizenship

Data Privacy Considerations:

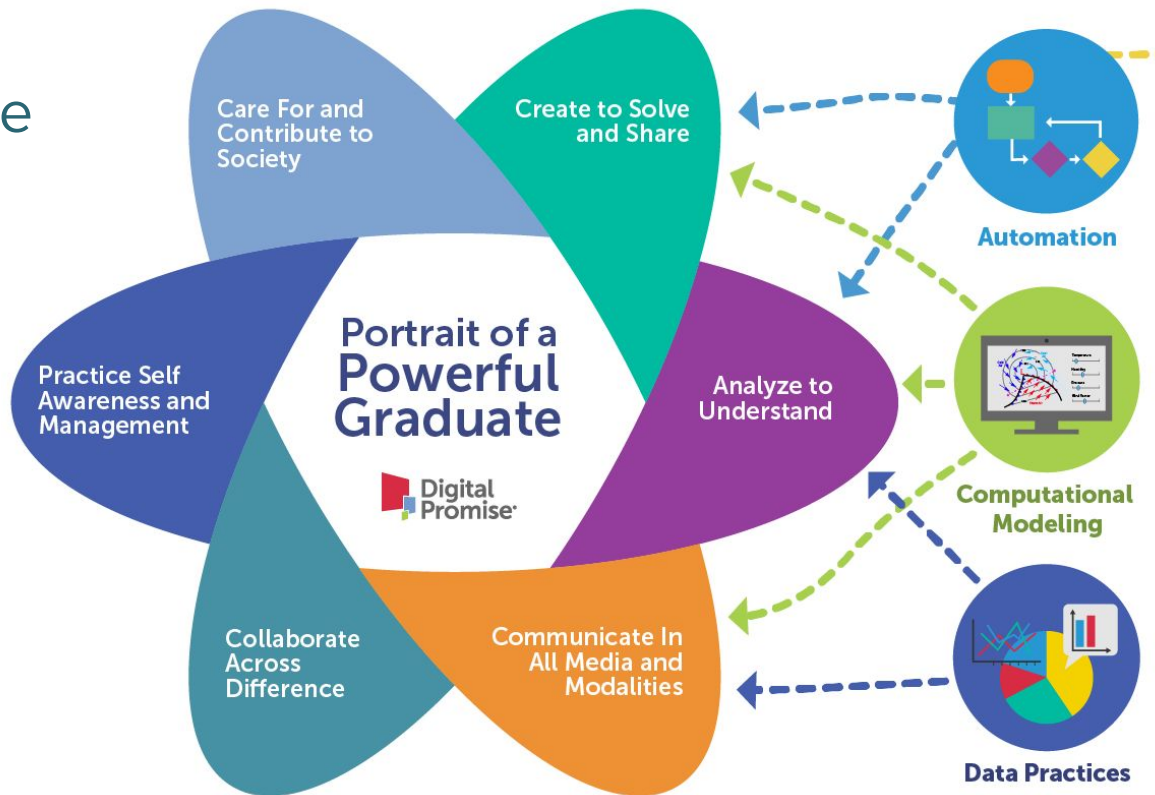
- Age Restrictions (Must be **13+ Years Old**)
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In the chat:
What existing opportunities are there in your school/district to integrate AI Literacy?

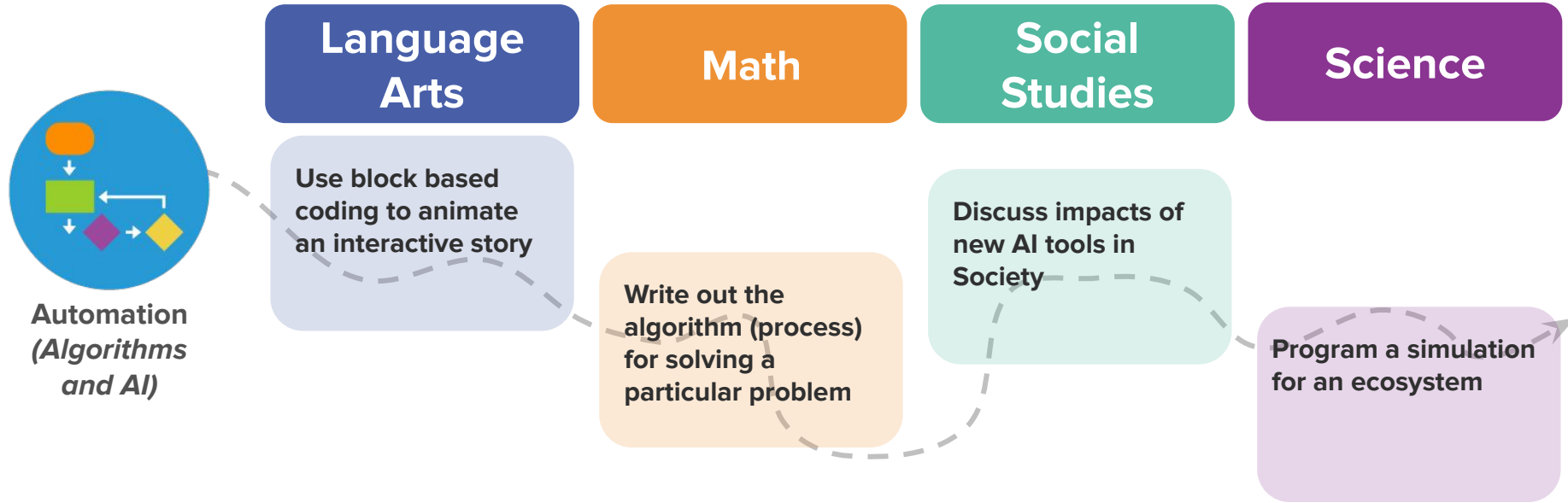
Districts can integrate AI Literacy into K-12 education *across grades and subjects*

Portrait of a Graduate

AI Literacy can promote
Skill sets identified in
Portrait of a Graduate



Integrated Learning Pathways identify and design opportunities for students to develop AI Literacy throughout K-12 learning experiences



Meet the Panelists



Joshua Elder

VP and Head of
Grantmaking, Siegel
Family Endowment



Brooke Morgan

Coordinator of Innovative
Learning, Talladega
County Schools

Q&A

Add questions in the **Zoom Q&A**

Thank you

Next Steps:

- You will receive resources mentioned throughout this webinar
- Recording will be posted on Digital Promise's YouTube channel
- Join us on Friday, April 19 for the next webinar in our Age of AI series: <https://tinyurl.com/4k4bxkcx>