MDUSD K-12 Technology Skills Scope and Sequence - Generative Artificial Intelligence

		Alignment to CCSS/CAASPP	Skills	K	1	2	3	4	5	6	7	8	9	10	11	12
u	Understanding AI Systems	ISTE 1.1	Identify common tools that use AI, such as voice assistants or recommendation systems. They begin to understand that AI is part of many digital experiences.	I	D	D	A	A	A	A	A	A	A	A	A	A
		ISTE 1.1	Explain that AI looks for patterns in data to make predictions or suggestions. They use simple examples to describe how outputs are generated.		I	D	A	A	A	A	A	A	A	A	A	A
		ISTE 1.5	Understand that AI systems learn from large sets of data provided by humans. They recognize that the quality of data impacts results.		O	I	I	D	A	A	A	A	A	A	A	A
		ISTE 1.1	Compare AI systems with simple automation and human thinking. They identify when decisions are made by humans versus machines.					I	D	A	A	A	A	A	A	A
		ISTE 1.5	Describe basic ideas such as inputs, outputs, and models. They begin to understand that AI systems improve through training and feedback.							I	D	A	A	A	A	A
	Using AI Tools Effectively	ISTE 1.1	Use AI tools with teacher support to complete structured tasks. They follow clear expectations for appropriate use.	O	O	O	I	D	D	A	A	A	A	A	A	A
		ISTE 1.3	Learn to ask specific, clear questions to get better results from AI tools. They recognize that vague prompts lead to less useful responses.		I	I	D	D	A	A	A	A	A	A	A	A
		ISTE 1.5	Refine their prompts based on the output they receive. They experiment with wording to improve accuracy and relevance.				O	I	D	A	A	A	A	A	A	A
		ISTE 1.1	Use AI to brainstorm, draft, or get feedback while maintaining ownership of their work. They understand AI as a support tool, not a replacement for thinking.				O	I	D	A	A	A	A	A	A	A
		ISTE 1.6	Choose AI tools based on the task and desired outcome. They consider strengths and limitations of different tools.						I	D	A	A	A	A	A	A
	Evaluating AI Outputs	ISTE 1.3	Recognize that AI outputs are not always correct or reliable. They understand the need to question results.	I	D	D	A	A	A	A	A	A	A	A	A	A
		ISTE 1.3	Check AI-generated information against trusted sources. They practice verifying facts before using information.		O	I	D	A	A	A	A	A	A	A	A	A
		ISTE 1.3	Notice when AI responses may reflect bias or leave out viewpoints. They begin to question whose perspectives are included or excluded.				I	D	D	A	A	A	A	A	A	A
		ISTE 1.3	Assess whether AI-generated content is accurate, relevant, and appropriate. They apply critical thinking when deciding what to use.			I	D	D	D	A	A	A	A	A	A	A
		ISTE 1.5	Examine the limits of AI, including errors, bias, and overreliance. They discuss potential risks in real-world contexts.					I	D	A	A	A	A	A	A	A
	Creating with AI	ISTE 1.6	Collaborate with AI to generate ideas, text, or media. They contribute their own thinking alongside AI outputs.				I	D	D	A	A	A	A	A	A	A
		ISTE 1.6	Use AI to improve clarity, organization, or creativity in their work. They ensure the final product reflects their own understanding.				I	D	D	A	A	A	A	A	A	A
		ISTE 1.4	Revise AI-generated outputs for accuracy, tone, and quality. They take responsibility for improving and finalizing content.				I	D	D	A	A	A	A	A	A	A
		ISTE 1.4	Incorporate AI tools into larger projects such as research or presentations. They make intentional decisions about when and how to use AI.				I	D	D	A	A	A	A	A	A	A
		ISTE 1.4	Combine multiple AI tools to complete complex tasks. They plan and manage a process that uses AI strategically.						I	D	D	A	A	A	A	A
	Responsible & Ethical Use	ISTE 1.2	Follow classroom and district guidelines for using AI tools. They demonstrate appropriate and respectful use of technology.	I	I	I	D	D	A	A	A	A	A	A	A	A
		ISTE 1.2	Understand not to share personal or sensitive information with AI tools. They recognize how data can be used and misused.	I	I	D	D	A	A	A	A	A	A	A	A	A
		ISTE 1.2	Disclose when and how AI tools are used in their work. They practice honesty and transparency in academic settings.	I	I	I	D	A	A	A	A	A	A	A	A	A
		ISTE 1.2	Understand that their work should reflect their own thinking. They learn expectations around plagiarism and appropriate AI use.	I	I	I	D	A	A	A	A	A	A	A	A	A
		ISTE 1.7	Explore how AI impacts society, including fairness and access. They consider ethical questions and responsible innovation.	I	I	I	D	A	A	A	A	A	A	A	A	A
	I - Introduce D - Develop A - Apply O - Optional															

Adapted from The SEE Framework:A Practical Guide to Building AI Literacy by AI in Education