



AI LITERACY FRAMEWORK

**EMPOWERING EDUCATORS TO TEACH AND USE
ARTIFICIAL INTELLIGENCE SAFELY AND EFFECTIVELY**



INTRODUCTION

Artificial Intelligence (AI) has become a daily part of our students' lives. From search engines and voice assistants to adaptive learning tools and recommendation systems, AI quietly shapes how young people learn and interact with information. For educators, this creates both opportunity and responsibility.

The purpose of this framework is to help teachers, administrators, and district leaders build a foundation for safe, equitable, and effective AI literacy in K-12 classrooms.

This means understanding what AI is, how to use it responsibly, and how to prepare students for a world where digital reasoning is a core skill.



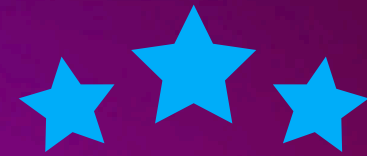
GUIDING PRINCIPLES

Our Philosophy for AI in the classroom embodies these three principles



Human at the core

AI should amplify teaching, not replace it. Educators remain the decision-makers who apply judgment, empathy, and creativity. Students should always understand that AI is a tool, not an authority.



Safe and compliant

AI systems must comply with FERPA, COPPA, IDEA, and Section 504. Any classroom use should prioritize student privacy, transparency, and age-appropriate engagement. Teachers and administrators must know what data an AI tool collects and how it is used.



Inclusive Access

Every student deserves access to AI-enhanced learning experiences, regardless of ability or background. AI can help personalize support, but equity requires oversight and teacher involvement to prevent bias or exclusion.



FRAMEWORK OVERVIEW

The AI Literacy Framework consists of four foundational domains

DOMAIN	FOCUS	STUDENT COMPETENCY GOALS
UNDERSTANDING AI	BUILDING AWARENESS OF WHAT AI IS AND HOW IT WORKS.	STUDENTS CAN EXPLAIN WHAT AI MEANS, IDENTIFY EXAMPLES IN DAILY LIFE, AND DESCRIBE ITS PURPOSE.
ETHICS AND SAFETY	DEVELOPING CRITICAL THINKING AND DIGITAL RESPONSIBILITY.	STUDENTS RECOGNIZE THAT AI CAN BE BIASED OR INACCURATE, KNOW HOW TO VERIFY INFORMATION, AND UNDERSTAND RESPONSIBLE USE.
APPLICATION AND CREATIVITY	USING AI TOOLS FOR LEARNING, CREATION, AND PROBLEM-SOLVING.	STUDENTS USE AI TO SUPPORT WRITING, RESEARCH, ACCESSIBILITY, AND INNOVATION WHILE MAINTAINING ACADEMIC INTEGRITY.
CAREER AND FUTURE PATHWAYS	EXPLORING AI-RELATED CAREERS AND REAL-WORLD APPLICATIONS.	STUDENTS CONNECT CLASSROOM LEARNING TO FUTURE JOB OPPORTUNITIES, CTE PROGRAMS, AND ETHICAL TECHNOLOGY DEVELOPMENT.

LEARNING PROGRESSIONS BY GRADE

Elementary (Grades K-5)

- Recognize that computers can “learn” from information.
- Identify examples of AI (voice assistants, search suggestions).
- Discuss fairness and honesty when using digital tools.
- Use simple AI-driven learning apps with adult guidance.
- Begin conversations about privacy, consent, and kindness online.

Middle School (Grades 6-8)

- Define artificial intelligence and machine learning in simple terms.
- Analyze how algorithms influence what we see or learn online.
- Practice checking AI-generated answers for accuracy.
- Explore how AI can assist with accessibility and inclusion.
- Discuss bias and ethical responsibility in technology.

High School (Grades 9-12)

- Explain basic concepts like data, algorithms, and predictive models.
- Evaluate strengths and limitations of AI systems in real-world contexts.
- Engage in projects that use AI tools for creative problem solving.
- Research ethical debates in AI (privacy, automation, bias).
- Connect AI learning to CTE clusters such as Information Technology, Health Science, and Education & Training.





CLASSROOM IMPLEMENTATION

AI literacy should be woven naturally into existing curriculum areas rather than treated as a separate subject.

- **Language Arts:** Use AI text tools to brainstorm essay ideas, then evaluate outputs for tone, bias, and accuracy.
- **STEM:** Explore data sets or AI simulations that model natural systems.
- **Social Studies:** Debate the role of AI in civic life, privacy, and democracy.
- **Socratic Research tools:** Use tools that can mimic the Socratic method, and help students ask the right questions

IMPLEMENTATION TIPS!

- **START SMALL**
- **MODEL AND ENCOURAGE CURIOSITY**
- **INCLUDE STUDENTS**
- **REINFORCE SAFETY**
- **REFLECT REGULARLY**



CONTINUED SUPPORT AND RESOURCES

Educators and Parents can access the following support through Babbage Education over the next few months

- **FREE TEACHER TOOLKITS WITH SAFE AI CLASSROOM TEMPLATES.**
- **COMPLIANCE GUIDES FOR FERPA, COPPA, AND IDEA ALIGNMENT.**
- **STUDENT HANDOUTS ON ETHICAL AI AND DIGITAL CITIZENSHIP.**
- **AI LITERACY LESSON PLANS LINKED TO CTE STANDARDS.**

In Conclusion

AI in education is not a future concept it is already here.

Our responsibility is to ensure that its presence in classrooms enhances human learning rather than replaces it.

Through thoughtful integration, clear compliance, and ethical practice, educators can create classrooms that prepare students for the digital world with confidence, safety, and curiosity.