



**TECHNIUM**  
SOCIAL SCIENCES JOURNAL

**Vol. 82/2026**  
**A New Decade for Social Changes**



**PLUS**  
**COMMUNICATION P**



International  
Communication & PR

# The Imperative of Integrating Artificial Intelligence into Elementary Social Studies Education

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**Abstract.** Elementary students already live in an AI mediated information environment. Search, recommendation systems, and generative tools shape what students read, watch, and believe, often without students realizing that an algorithm is curating the experience. This article argues that elementary Social Studies is an especially strong and practical starting point for AI literacy because it already teaches how communities make decisions, how evidence is used, and how people should treat one another. We offer a classroom ready approach that reduces plagiarism risk by emphasizing original teacher authored routines and locally grounded tasks: a grade band progression for AI civic reasoning, a 10 minute weekly VERIFY routine for evaluating claims, and three project vignettes that can be implemented with typical time and technology constraints. We also clarify limits and safeguards, including age appropriate privacy practices and when to avoid student use of general purpose chatbots. The goal is not to turn children into computer scientists. The goal is to build early habits of evidence, judgment, and civic responsibility that help students learn well today and participate wisely in a democracy tomorrow.

**Keywords.** artificial intelligence, generative AI, AI literacy, elementary education, Social Studies, civic reasoning, digital citizenship, misinformation

## **I. Introduction: Why Elementary Social Studies Needs AI Literacy Now**

Generative AI shifted from novelty to everyday tool use in 2023 and 2024, but elementary students were already encountering AI long before they typed a prompt. Recommendation systems decide which videos appear next. Search tools summarize answers. Filters sort comments. For many children, AI is not a future topic. It is the background layer of the information world they navigate each day (U.S. Department of Education, Office of Educational Technology, 2023; UNESCO, 2023/2026). This matters for Social Studies because the discipline is built around three questions that AI makes harder and more urgent: What happened, how do we know, and what should we do about it. When students cannot tell whether a claim is evidence based, when they cannot explain who made a piece of information and why, or when they accept a confident sounding summary as truth, civic learning suffers. We propose a simple starting position: teach AI literacy as an early civic habit. In the elementary grades, that habit looks like noticing when a tool is making a choice for you, asking what sources were used, checking for what is missing, and treating people and communities fairly when technology is involved. The sections that follow translate this position into teacher ready moves, routines,

and assessments, grounded in the growing evidence base on GenAI in schools (OECD, 2026; RAND, 2025; Alfarwan, 2025; Yim, 2025).

## **II. The Case for AI Education in K–12: What Has Changed and What Has Not**

Two things can be true at the same time. First, AI is changing the conditions of learning. Second, the core purposes of schooling remain stable. Schools still exist to help young people develop knowledge, skills, and character so they can thrive in daily life, succeed in future work and learning, and participate in civic life. Recent national evidence shows that implementation is uneven and guidance is often missing. RAND survey data from the 2023–2024 school year suggest that about one quarter of teachers used AI tools for planning or teaching, while many teachers reported limited school level guidance (Kaufman & Diliberti, 2025). Teacher organizations have also emphasized the need for clear, ethical, and equitable guidance (National Education Association, 2024). At the student level, evidence continues to show widespread exposure and use. A 2026 Pew Research Center study reports that a majority of U.S. teens have used chatbots, including for schoolwork help, and some report more personal uses such as emotional support (McClain et al., 2026). Although this study focuses on teens, it is a warning light for elementary education: habits formed early become default behaviors later. The opportunity is that AI can amplify strong pedagogy when used with intent, especially for feedback, practice, and accessible research support. The risk is that AI can amplify weak pedagogy, encourage shortcuts, or deepen inequities when access and guidance differ across schools (OECD, 2026). Elementary Social Studies is a practical starting point because it teaches decision making, perspective taking, and evidence. It is also one of the few spaces where students regularly discuss fairness, rules, rights, and responsibilities. In other words, Social Studies already has the content and the ethical vocabulary that AI literacy requires.

## **III. A Practical Framework for AI Integration in Elementary Social Studies**

This framework is designed for ordinary classrooms. It assumes limited time, mixed access to devices, and a need for routines that do not depend on daily student chatbot use. The key idea is to teach AI literacy through civic reasoning tasks, not through technical explanations. Teachers can begin with three instructional anchors: (1) practical life skills, (2) future ready skills, and (3) local relevance.

### ***A. Practical Life Skills as Social Studies Outcomes***

Practical life skills are the everyday competencies students can use immediately outside school. In elementary Social Studies, these skills often appear when students make choices, weigh consequences, resolve conflicts, and evaluate information. We recommend organizing instruction around four clusters:

1. Making and evaluating choices: decision making, problem solving, ethical reasoning, empathy.
2. Managing responsibilities: self management, goal setting, time and task planning.
3. Working with others: communication, listening, collaboration, conflict resolution.
4. Navigating money and information: basic financial awareness, media literacy, digital citizenship.

AI integration strengthens these skills when students use structured routines to test a claim,

compare sources, or generate questions, and then take responsibility for verifying and revising. The VERIFY routine in Section III-D is designed to make that process visible and repeatable.

### ***B. Future Ready Skills that Fit Naturally in Social Studies***

Future ready skills are the transferable capacities students need to adapt in a changing world. Many frameworks emphasize collaboration, communication, critical thinking, and creativity as foundational (Battelle for Kids, n.d.). AI adds a new layer: students must learn to use digital tools without surrendering judgment. For elementary Social Studies, we recommend four clusters:

1. Working with others in dynamic settings: collaboration, adaptability.
2. Making sense of digital tools and data: digital and AI literacy, media literacy, basic data interpretation.
3. Thinking creatively and critically about real problems: inquiry, argument, innovation.
4. Participating in local and global communities: civic engagement, global awareness.

These skills can be taught without turning Social Studies into a technology class. The teacher's job is to design tasks that require reasoning and evidence, then use AI tools only when they support that goal.

### ***C. Make It Local: Three Classroom Vignettes***

Vignette 1: "Our Town, Our Rules" (Grades 2–3)

Students study a real community rule such as library behavior expectations or park signage. The teacher provides two short AI generated summaries of why the rule exists, one accurate and one with a subtle error. Students use a class source set (sign photos, a short librarian interview transcript, a city website snippet) to identify which summary matches the evidence. The assessment is a one paragraph explanation: What claim did the summary make, what source supports or contradicts it, and what should we do if a summary is wrong.

Vignette 2: "Who Benefits, Who Is Missing?" (Grades 4–5)

Students examine a historical or local issue such as water use, neighborhood development, or school zoning. The teacher asks a generative tool to list stakeholders and suggested solutions. Students then add two missing groups and rewrite one solution to be fairer, using evidence from class readings and a simple equity checklist. This task teaches that AI outputs are not neutral and can omit communities.

Vignette 3: "Image or Evidence?" (Grades 5)

Students compare a real photograph, an AI generated image, and a short caption about a local event. Students do not need to generate images themselves. They practice sourcing and corroboration by answering: Who created each item, what can it prove, and what cannot it prove. The exit ticket is a rule students write for themselves: When I see an image online, I will...

### ***D. Elementary AI Civics Progression and a 10-Minute Weekly VERIFY Routine***

The research on AI literacy in primary schools emphasizes that effective instruction is age appropriate, embedded in meaningful contexts, and supported by clear assessment approaches (Yim, 2025). In parallel, systematic reviews of GenAI use in K–12 highlight both potential benefits and recurring risks related to accuracy, bias, privacy, and overreliance (Alfarwan, 2025). The progression and routine below translate these findings into a practical classroom sequence.

Grade band	Core civic habit	What students can do (examples)
K-1	Notice and name	Identify when a tool makes a choice for you (autoplay, suggested videos). Practice saying: “The computer suggested this.”
2-3	Ask and check	Ask “Where did that come from?” Use a teacher provided source set to check one claim in a summary.
4-5	Compare and revise	Compare two sources and a tool output. Identify missing voices. Revise the output to be more accurate and fair, citing evidence.

The 10-minute weekly VERIFY routine (teacher led, device optional)

**V:** View the claim. Read one short claim or summary aloud.  
**E:** Evidence check. Students point to one class source that supports or challenges the claim.  
**R:** Reason. Students explain why the source fits, using a sentence frame.  
**I:** Identify what is missing. Students name one question the claim does not answer.  
**F:** Fix and reflect. As a class, revise the claim into a safer, evidence aligned statement and note one habit for next time.

This routine works whether the “claim” comes from a chatbot, a headline, a video caption, or a peer. The civic skill is the same: disciplined checking before believing or sharing.

***What We Are Not Claiming, and When Not to Use Student Chatbots***

This article does not claim that elementary students should regularly use open, general purpose chatbots. In many settings, that choice raises privacy and age related concerns. Instead, we recommend teacher mediated use, purpose built learning tools when available, and careful local policy alignment (OECD, 2026; UNESCO, 2023/2026; National Education Association, 2024). Teachers should avoid prompting students to enter personal information, student work that includes sensitive details, or any data protected by school policies. When in doubt, keep student interaction offline: use printed AI outputs as texts to analyze, just as you would analyze a primary source or a news excerpt.

**IV. Conclusion: A Practical Call to Action for Social Studies Educators**

Elementary Social Studies can lead AI education because it already teaches the habits a democracy depends on: evidence, fairness, and responsibility. The goal is not speed or novelty. The goal is student judgment. We recommend three next steps. First, adopt one repeatable routine such as VERIFY and use it weekly so students build a habit, not a one time lesson. Second, design at least one local project each term where students must corroborate information and consider who is missing from a narrative. Third, protect students by choosing

tools and practices that match developmental needs and privacy obligations, while still teaching students to recognize and question AI mediated information. As guidance and adoption evolve, the core challenge remains stable: students will continue to meet persuasive information in many forms. Social Studies is the place where we teach them to pause, check, and act with care.

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