

AI-ENHANCED INSTRUCTION FRAMEWORK

Domain 1: Foundations for AI Integration

This domain focuses on the critical planning and preparation steps necessary for effectively integrating AI tools into instruction. It emphasizes a thoughtful, goal-oriented approach that prioritizes student learning and ethical considerations.

- **AI Literacy:**
Understanding key concepts.
 - **Goal-Driven Selection:**
Learning objectives first.
 - **Compliance First:**
Prioritize student safety.
 - **Accuracy Checks:**
Plan for verification.
 - **Balanced Tasks:**
Integrate human and AI tasks.
 - **Automation:**
Optimize planning tasks.
- Build and maintain a working knowledge** of essential AI concepts (e.g., data, models, generative tools, limitations), especially as they apply to curriculum, assessment, and student support.
- When planning units and lessons**, first clarify learning goals and standards, then decide if and how AI tools can help students meet those goals rather than starting from the tool.
- Select AI tools** only after considering alignment with content standards, accessibility needs, age appropriateness, and your school or district's data-privacy expectations. Verify that the tool complies with FERPA (protection of student educational records) and COPPA (restrictions for collecting data from students under 13). Prefer district-approved or vetted platforms with clear data-handling policies.
- Anticipate common inaccuracies, bias, and hallucinations** in AI output and plan specific checks: how you will verify content, how students will cross-check information, and how you will address errors as learning opportunities.
- Plan for a balance** between AI-augmented tasks (e.g., drafting, brainstorming, adaptive practice) and fully human tasks (e.g., discussion, reflection, performance tasks) so students practice skills with and without AI.
- Leverage AI to automate** routine planning tasks (e.g., generating lesson outlines, creating quiz questions, drafting parent updates) while reserving teacher time for higher-order instructional design and individual student support.

Key Takeaways

Domain 1 sets the stage for responsible and effective AI integration. By focusing on foundational knowledge, learning goals, ethical considerations, and balanced task design, educators can leverage AI to enhance instruction while maintaining a focus on student well-being and pedagogical best practices.

Domain 2: Classroom Environment and Responsible AI Use

This domain focuses on fostering responsible, transparent, and ethical use of AI in the classroom. It emphasizes co-creating norms with students to guide acceptable AI use, protecting privacy, and maintaining academic integrity. The domain highlights the importance of modeling safe and compliant data practices, promoting critical conversations about AI's social and ethical impacts, and encouraging ongoing reflection on how these tools influence learning, well-being, and equity.

- **Co-create AI Classroom Norms:** Shared rules for ethical AI use.
Establish and co-create classroom norms for AI use with students, including expectations for disclosure, attribution, academic integrity, and respectful dialogue about automation and bias.
- **Define Acceptable AI Use:** Clarify when and how AI helps.
Explicitly teach what counts as acceptable and unacceptable AI use for different types of tasks (e.g., allowed for brainstorming, not allowed for final answers on assessments) and revisit these expectations throughout the year.
- **Protect Student Privacy:** Model safe, FERPA-compliant behavior.
Protect student privacy by modeling safe practices: avoid entering student names, sensitive information, or identifiable work into tools that are not approved by the school or district. Only use AI platforms that meet district security standards and clarify to students that personal or identifiable information should never be shared with generative tools. Reinforce how FERPA and COPPA protect student data and model those principles in class.
- **Encourage Critical AI Dialogue:** Explore bias and equity impacts.
Foster an environment where students feel comfortable asking questions about AI's impacts on identity, fairness, and future opportunities, especially for historically marginalized groups.
- **Reflect on AI's Influence:** Assess motivation and well-being.
Incorporate brief routines for students to reflect on how AI is affecting their motivation, confidence, collaboration, and well-being, and adjust classroom practices based on those reflections.
- **Model Digital Citizenship:** Teach data ownership and informed use.
Model digital citizenship by discussing data ownership, intellectual property, and how AI tools collect and use user inputs, empowering students to make informed choices.

Key Takeaways

Domain 2 emphasizes building shared norms and transparent expectations so that students use AI responsibly and ethically. By modeling privacy-aware behaviors, teaching digital citizenship, and creating space for dialogue about fairness and identity, educators foster a safe, inclusive, and trust-centered classroom culture.

Domain 3: Instruction Using AI for Teaching and Assessment

This domain focuses on the effective use of AI tools to enhance both teaching and assessment practices. It highlights the intentional integration of AI in creating instructional materials, formative assessments, and differentiated supports that foster student engagement and equity. The domain emphasizes the teacher's active role in reviewing, adapting, and validating AI outputs for accuracy, inclusivity, and ethical use. It also promotes developing students' AI literacy—teaching them how to prompt, critique, and reflect on AI-generated content—while using data-driven insights responsibly to inform instruction and meet diverse learner needs.

- **AI-Created Materials:** Ensure accuracy and inclusivity.
Use AI tools to create varied examples, explanations, and scaffolds that you review and adjust for accuracy, relevance, and inclusivity before sharing with students.
- **Formative Assessment:** Pair AI feedback with reflection.
Incorporate AI into formative assessment by using tools to generate practice items, hints, or sample responses; then pair this with teacher feedback and student self-assessment.
- **AI Literacy:** Teach prompting and evaluation.
Teach students explicit strategies for prompting AI (e.g., specifying role, context, constraints) and for critiquing responses (e.g., checking sources, spotting bias, comparing with class resources).
- **Learning Insights:** Verify AI patterns with evidence.
Use AI-generated learning analytics or insights, when available, to identify patterns in student understanding, but verify these patterns with your own observations and student conversations.
- **Diverse Learner Support:** Use adaptive, equitable tools.
Integrate AI to support diverse learners (e.g., multilingual students, students with disabilities, neurodiverse learners, gifted students) by using multimodal tools for translation, read-aloud, or visual supports, ensuring these uses align with IEPs, 504 plans, and accessibility guidelines.
- **Automation:** Streamline tasks for connection.
Automate administrative or repetitive teaching tasks—such as summarizing exit tickets, tracking parent communication logs, and organizing materials—so instructional time can focus on feedback, differentiation, and relationship building with students.

Key Takeaways

Domain 3 highlights the intentional and guided use of AI to enhance learning and assessment. By reviewing, adapting, and pairing AI-generated materials with human judgment, educators personalize learning, strengthen formative assessment, and support diverse learners while upholding accuracy, equity, and sound pedagogy.

Domain 4: Professional Responsibilities and AI Leadership

This domain focuses on educators' ethical, legal, and leadership responsibilities in using AI. It emphasizes aligning practice with policy and privacy laws, modeling responsible AI use, collaborating on equitable tool adoption, and communicating transparently with families and communities.

- Follow AI Policies and Laws:** Align teaching with legal standards.
Stay informed about your institution's AI policies, legal requirements (e.g., privacy laws where applicable), and approved tools; incorporate these into course design and daily practice. Regularly review updates to FERPA and COPPA guidance and district-level AI governance policies. Maintain documentation showing that data-sharing decisions align with these laws.
- Model Transparent AI Use:** Disclose and attribute AI help.
Disclose meaningful AI assistance in professional materials (syllabi, communications, presentations) and model how to attribute AI use appropriately to students and colleagues.
- Join AI Learning Communities:** Share strategies and insights.
Participate in professional learning communities or working groups focused on AI in education, sharing effective strategies, concerns, and examples of classroom practice.
- Evaluate Tools Responsibly:** Prioritize equity and data safety.
When evaluating new AI tools, consider their impact on equity, sustainability, student data protection, and workload, and share feedback with school or district leadership. Encourage a teacher-led vetting process that includes transparency about data collection, third-party access, and security standards.
- Engage Families and Communities:** Communicate AI use and safeguards.
Engage families and community partners by explaining how AI is used in the classroom, how student data is protected, and how AI relates to emerging careers and civic participation. Regularly communicate with caregivers through newsletters or presentations about AI's classroom role, emphasizing safeguards, consent, and opportunities for student voice.

Key Takeaways

Domain 4 underscores the educator's role as a model and leader in ethical, transparent AI use. Through ongoing professional growth, responsible disclosure, and collaboration with colleagues and families, educators champion AI literacy, protect student data, and support school-wide efforts for thoughtful and informed integration.

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