Title: AI In Education   **Draft:** 1st Draft

Date: February 6th, 2025   Utah State Board of Education

Approve updates to USBE AI Framework:

- Update to USBE's Framework
    - Update to Guiding Principles
        - **8 - We understand that AI is a tool inside and outside of the classroom.** When students leave a school device, network, or account they may have access to AI tools. USBE is dedicated to helping to provide support in understanding appropriate uses in this context and providing support to Utah agencies that support our learners when they access AI tools on a personal device.
    - Update to Prohibited Use
        - Under Teachers and Diminishing student and teacher agency - last line:
            - Teachers and students need to understand how agentic AI, or any AI system, that offloads decision making and/or cognitive effort in the classroom, operate and how to use them appropriately with a human in the loop.
    - Glossary:
        - **Artificial Intelligence Aided Adaptive Learning:** A learning process that uses machine learning and generative artificial intelligence to provide personalized learning experiences by adjusting the path or pace of the content based on a student input.
        - **Agentic Artificial Intelligence:** An independent artificial intelligence system that act on the behalf of a human user to achieve a goal with minimal human intervention.
        - **Artificial General Intelligence:** A hypothetical artificial intelligence system that would be able to learn and reason to mimic human intelligence.
        - **Artificial Intelligence Bias:** When an AI system produces results that are incorrect due to assumptions in the machine learning process or training data. Bias can be the result of issues within the large language model, the algorithm, or a lack of or incorrect data input by the artificial intelligence developer.
        - **Artificial Intelligence Hallucination:** A phenomenon where a Large Language Model generates information that is factually incorrect, nonsensical, or detached from reality.
        - **Chatbot:** An artificial intelligence program designed to simulate conversation with human users.

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Contact Person and Email: Matthew Winters, matt.winters@schools.utah.gov

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- **Constitutional Chatbot:** A chatbot that relies on a user's input for how it behaves over the course of its use. Constitutional chatbots can be created for a singular user or for multiple users depending on design.
- **Data Disposition:** The process of disposing of data when it is no longer needed, ensuring it is securely destroyed or transferred according to policy.
- **Data Privacy Agreement (DPA):** An agreement between a local education agency (LEA) and a vendor which establishes data privacy and security protections for student data. Data privacy agreements are +-the primary method used for meeting Utah's law requiring documentation of certain data protections in a contract.
- **Generative Artificial Intelligence:** Generative AI is a subset of machine learning specifically designed to *create* new content (text, images, audio, video, code, etc).
- **Generative Pre-trained Transformer (GPT):** A type of large language model developed that uses deep learning to produce human-like text.
- **Human in the loop:** The practice of involving human interaction or intervention to guide, correct, or validate AI-generated outcomes within a variety of contexts.
- **Large Language Models (LLM):** An AI model trained on vast amounts of text data to understand and generate human language.
- **Machine Learning:** A broad field of AI focused on building systems that learn from data to make predictions.
- **Prompting:** The act of providing specific inputs or instructions to an AI model to elicit a desired response. In generative AI chatbots, prompting should be considered conversational and recursive.
- **Retrieval-Augmented Generation (RAG):** A technique that gives a generative artificial intelligence model access to specific, reliable external data sources to improve the accuracy and relevance of its answers.
- **Responsible Use of AI:** The ethical and compliant use of AI tools to ensure data transparency, security, privacy, and more.
- **Walled Garden:** A closed ecosystem where the provider has total control over applications, content, and media, restricting access to data.

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