

Essential Standards Extended Guide

Digital Literacy

Guiding Information:

- **Essential standards** are explicitly taught, assessed multiple times, and receive targeted interventions for students who have not yet reached proficiency.
- **Supporting standards** are taught to reinforce essential standards and may or may not be formally assessed.

This guidance helps LEAs prioritize the most critical standards, recognizing that not all standards are of equal importance. This document serves as a resource—not a mandate—to assist local efforts.

Computer Science

Essential Standards
Standards are to be explicitly taught, assessed more than once, and intervened upon in this cluster of standards.
9-12.CS.1.4 Create or modify a program that uses different forms of input and output.
9-12.CS.1.6 Create a model of how embedded systems sense, process, and interact in a given environment.
9-12.CS.2.6 Compare and contrast the viewpoints on cybersecurity from the perspective of security experts, privacy advocates, and the government.
9-12.CS.3.4 Identify and evaluate the beneficial and harmful effects of computing innovations on behavior and culture.
9-12.CS.3.5 Debate how the issues of equity, data access, and distribution of computing resources create a digital divide in a global society.
9-12.CS.3.8 Research and explain the social, moral, ethical, and legal impacts of artificial intelligence systems and respective usage.
9-12.CS.5.2 Design algorithms using sequence, selection, iteration and recursion. *Recursion will be addressed in an upper computer science course.

Supporting Standards
Standards that support the Essential Standards. These standards will be taught but may or may not be formally assessed.
9-12.CS.5.1 Diagram the flow and execution and output of a given program.
9-12.CS.3.2 Explain the social and economic implications associated with unethical computing practices.
9-12.CS.3.3 Discuss trade-offs such as privacy, safety, and convenience associated with the collection and large-scale analysis of personal information.
9-12.CS.3.7 Understand and define artificial intelligence.
9-12.CS.5.23 Critically examine algorithms and design an original algorithm (adapt, remix, improve).

Information Computer Tech

Essential Standards
Standards are to be explicitly taught, assessed more than once, and intervened upon in this cluster of standards.
9-12.ICT.2.1 Develop and manage their digital identity and understand the permanence of their digital actions including the effect on current and future reputation.
9-12.ICT.2.3 Demonstrate an understanding of the rights and obligations of using and sharing intellectual property.

Supporting Standards
Standards that support the Essential Standards. These standards will be taught but may or may not be formally assessed.
9-12.ICT.2.4 Maintain their digital security and understand data collection technology used to track their online activity.
9-12.CS.3.1 Demonstrate responsible digital citizenship (legal and ethical behaviors) in the use of technology systems and software.
9-12.ICT.2.2 Engage in positive, safe, legal and ethical behavior when using technology.
ODC.9-10.5. Manage personal data to maintain digital privacy and security and be conscious and aware of data-collection technology used to track and exploit navigation online.

Supporting Standards

Standards that support the Essential Standards. These standards will be taught but may or may not be formally assessed.

ODC.11-12.5. Demonstrate the responsible and ethical use of information and communication technologies by distinguishing between kinds of information that should and should not be publicly shared and describing the consequences of a poor decision.

Digital Communications

Essential Standards

Standards are to be explicitly taught, assessed more than once, and intervened upon in this cluster of standards.

ODC.9-12.6. Integrate multiple sources of information presented in diverse digital media, evaluating the credibility and accuracy of each source.

Supporting Standards

Standards that support the Essential Standards. These standards will be taught but may or may not be formally assessed.

ODC.9-12.8. Make strategic use of digital media presentations to enhance understanding of findings, reasoning, and evidence and to add interest.

For Questions Contact

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