Montana Technology Integration

Grades 9-12

The empowered learner content standards ninth-twelfth grade are that each student will TI.EL.9-12

1. **set personal learning goals, develop strategies leveraging technology to achieve them and reflect on the learning process to improve learning outcomes** TI.EL.9-12.1
2. **build personal learning networks and customize learning environments in ways that support the learning process** TI.EL.9-12.2
3. **use technology to seek feedback that informs and improves practice and to demonstrate learning in a variety of ways** TI.EL.9-12.3
4. **demonstrate the ability to choose, use, and troubleshoot current technologies, and transfer knowledge to explore emerging technologies** TI.EL.9-12.4

The digital citizen content standards for ninth-twelfth grade are that each student will TI.DC.9-12

1. **cultivate and manage a positive digital identity and demonstrate an understanding of how the digital footprint is permanent and can impact reputation** TI.DC.9-12.1
2. **engage in positive, safe, legal and ethical behavior when using technology, including social interactions online or when using networked devices** TI.DC.9-12.2
3. **respect the rights and obligations of creating, using, and sharing intellectual property** TI.DC.9-12.3
4. **manage personal data to maintain digital privacy and security** TI.DC.9-12.4

The knowledge constructor content standards for ninth-twelfth grade are that each student will TI.KC.9-12

1. **use research strategies to locate information and resources for intellectual or creative pursuits** TI.KC.9-12.1
2. **evaluate the accuracy, perspective, cultural sensitivity, credibility, and relevance of information, media, data, or other resources** TI.KC.9-12.2
3. **evaluate potential biases in resources** TI.KC.9-12.3
4. **curate information from digital resources using a variety of tools and methods to create collections of artifacts that are connected to a theme or support a thesis** TI.KC.9-12.4

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nitiate a deliberate design process for generating ideas, testing theories, creating nnovative artifacts, or solving authentic problems TI.ID.9-12.1

ninth-twelfth grade are that each student will TI.ID.9-12	2 select and use digital tools to plan and manage design process that considers design constraints and calculated risks TI.ID.9-12.2
	3 develop, test, and refine prototypes as part of cyclical design process TI.ID.9-12.3
The computational thinker content standards for ninth-twelfth grade are that each student will TI.CT.9-12	1 identify problems suited for technology-assisted methods for data analysis, abstract models, and algorithmic thinking TI.CT.9-12.1
	2 collect data or identify relevant data sets, use digital tools to analyze them, and represent data in various ways to facilitate problem-solving and decision-making TI.CT.9-12.2
	3 break down problems into component parts, extract key information and develop descriptive models to understand complex systems or facilitate problem-solving TI.CT.9-12.3
	4 explain how automation works and use algorithmic thinking to develop a sequence of steps to create and test automate solutions TI.CT.9-12.4
The creative communicator content standards for ninth-twelfth grade are that each student will TI.CC.9-12	1 choose the appropriate platforms and tools for meeting the desired objectives of their creation or communication TI.CC.9-12.1
	2 create original works or responsibly repurpose or remix digital resources into new creative works TI.CC.9-12.2
	3 communicate complex ideas clearly and effectively by creating or using a variety of digital objects such as visualizations, models or simulations TI.CC.9-12.3
	4 publish, present, and defend content that customizes the message and medium for the intended audiences TI.CC.9-12.4
The global collaborator content standards for ninth-twelfth grade are that each student will TI.GC.9-12	1 identify and use digital tools to connect with learners from a variety of backgrounds and cultures, engaging with them in ways that broaden mutual understanding and learning of others TI.GC.9-12.1
	2 identify and use collaborative technologies to work with others to examine global and local issues, problems and solutions from multiple viewpoints TI.GC.9-12.2
	3 contribute constructively to project teams, assuming various roles and responsibilities to work effectively toward a common goal TI.GC.9-12.3
The reflective user content standards for ninth-twelfth grade are that each student will TI.RU.9-12	1 evaluate historical, cultural, and social impacts of technology innovations on individuals and groups, including urban, rural and reservation communities TI.RU.9-12.1
	2 reflect on and explain how technological innovations influence selection of tools and resources appropriate to a task TI.RU.9-12.2