National Education Technology Standards (NETS – Students)
REVIEW & REVISION TO FIT FSM NEEDS & CONDITIONS

Reviewed by: **Group 2** **Date:** **3/23/2010**

What are our goals and objectives in adopting Technology Standards for Students in the FSM?	▪ Integration and promotion of technology in the FSM curriculum standards ▪ Good decisions, application of new introduced skills thru use of technology, critical thinkers, innovative, computer literate, responsible. ▪ FSM students to be technologically competent in usage and applications
What are possible formats for standards (see Learning Point Associates (NCREL) & Massachusetts DOE on FSM Tech Plan web site for examples)?	▪ Outline format
What are possible grade clusters for Technology Standards for Students see Learning Point Associates (NCREL) & Massachusetts DOE on FSM Tech Plan web site for examples)?	▪ K-3, 4-6, 7-8, 9-10 & 11-12

Standard, Description & Performance Indicators	**Appropriate**		**Comments/Changes**
	Yes	**No**	
1. **Creativity and Innovation.** Students demonstrate creative thinking, construct knowledge, and develop innovative products and processes using technology. Students:	**X**		
a. Apply existing knowledge to generate new ideas, products and processes	X		
b. Create original works as a means of personal or group expressions			Y
c. Use models and simulation to explore complex systems and issues			Y

Standard, Description & Performance Indicators	Appropriate Yes	No	Comments/Changes
d. Identify trends and forecast possibilities			Y
2. **Communications and Collaboration**. Students use digital media and environments to communicate and work collaboratively, including at a distance to support individual learning and contribute to the learning of others. Students:	**X**		
a. Interact, collaborate, and publish with peers, experts, or others employing a variety of digital environments and media			Y
b. Communicate information and ideas effectively to multiple audiences using a variety of media and formats			Y
c. Develop cultural understanding and global awareness by engaging with learners of other cultures			Y
d. Contribute to project teams to produce original works or solve problems			Y
3. **Research and Information Fluency.** Students apply digital tools to gather, evaluate, and use information. Students:	**x**		
a. Plan strategies to guide inquiry			Y
b. Locate, organize, analysis, evaluate, synthesize, and ethically use information from a variety of sources and media			Y
c. Evaluate and select information sources and digital tools based on the appropriateness to specific tasks			Y
d. Process data and report results			Y
4. **Critical Thinking, Problem Solving, and Decision Making.** Students use critical thinking skills to plan and conduct research, manage projects,	X		

Standard, Description & Performance Indicators	Appropriate Yes	Appropriate No	Comments/Changes
solve problems, and make informed decision using appropriate digital tools and resources. Students:			
a. Identify and define authentic problems and significant questions for investigation			Y
b. Plan and manage activities to develop a solution or complete a project			Y
c. Collect and analyze data to identify solutions and/or make informed decisions			Y
d. Use multiple processes and diverse perspectives to explore alternative solutions			Y
5. **Digital Citizenship.** Students understand human, cultural, and societal issues related to technology and practice legal and ethical behavior. Students:	**x**		
a. Advocate and practice safe, legal, and responsible use of information and technology			Y
b. Exhibit a positive attitude toward using technology that supports collaboration, learning and productivity			Y
c. Demonstrate personal responsibility for lifelong learning			Y
d. Exhibit leadership for digital citizenship			Y
6. **Technology Operations and Concepts.** Students demonstrate a sound understanding of technology concepts, systems, and operations. Students:			Y
a. Understand and use technology systems			Y
b. Select and use applications effectively and productively			Y

Standard, Description & Performance Indicators	Appropriate Yes	No	Comments/Changes
c. Troubleshoot systems and applications			Y
d. Transfer current knowledge to learning of new technologies			Y

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What are our goals and objectives in adopting Technology Standards for Students in the FSM?	• Students should demonstrate technology literacy at all grade levels. . • To enhance student learning, social interactions, and to prepare them for future employment. • To apply technological knowledge, skills and ethical decision making in their daily lives.
What are possible formats for standards (see Learning Point Associates (NCREL) & Massachusetts DOE on FSM Tech Plan web site for examples)?	▪ Rubrics
What are possible grade clusters for Technology Standards for Students see Learning Point Associates (NCREL) & Massachusetts DOE on FSM Tech Plan web site for examples)?	▪ Follow existing clusters (K-3, 4-6, 7-8, 9-12). ▪

Standard, Description & Performance Indicators	Appropriate Yes	No	Comments/Changes
7. **Creativity and Innovation.** Students demonstrate creative thinking, construct	**X**		**yes**

Standard, Description & Performance Indicators	Appropriate Yes	No	Comments/Changes
knowledge, and develop innovative products and processes using technology. Students:			
a. Apply existing knowledge to generate new ideas, products and processes			Yes
b. Create original works as a means of personal or group expressions			Yes
c. Use models and simulation to explore complex systems and issues			Yes
d. Identity trends and forecast possibilities			Yes
8. **Communications and Collaboration**. Students use digital media and environments to communicate and work collaboratively, including at a distance to support individual learning and contribute to the learning of others. Students:			**Yes**
a. Interact, collaborate, and publish with peers, experts, or others employing a variety of digital environments and media			Yes
b. Communicate information and ideas effectively to multiple audiences using a variety of media and formats			Yes
c. Develop cultural understanding and global awareness by engaging with learners of other cultures			Yes
d. Contribute to project teams to produce original works or solve problems			Yes
9. **Research and Information Fluency.** Students apply digital tools to gather, evaluate, and use information. Students:			**yes**
a. Plan strategies to guide inquiry			Yes
b. Locate, organize, analysis, evaluate, synthesize, and ethically use information			Yes

Standard, Description & Performance Indicators	Appropriate Yes	No	Comments/Changes
from a variety of sources and media			
c. Evaluate and select information sources and digital tools based on the appropriateness to specific tasks			Yes
d. Process data and report results			Yes
10. **Critical Thinking, Problem Solving, and Decision Making.** Students use critical thinking skills to plan and conduct research, manage projects, solve problems, and make informed decision using appropriate digital tools and resources. Students:			Yes
a. Identify and define authentic problems and significant questions for investigation			Yes
b. Plan and manage activities to develop a solution or complete a project			Yes
c. Collect and analyze data to identify solutions and/or make informed decisions			Yes
d. Use multiple processes and diverse perspectives to explore alternative solutions			Yes
11. **Digital Citizenship.** Students understand human, cultural, and societal issues related to technology and practice legal and ethical behavior. Students:			**yes**
a. Advocate and practice safe, legal, and responsible use of information and technology			Yes
b. Exhibit a positive attitude toward using technology that supports collaboration, learning and productivity			Yes
c. Demonstrate personal responsibility for			Yes

Standard, Description & Performance Indicators	Appropriate Yes	No	Comments/Changes
lifelong learning			
d. Exhibit leadership for digital citizenship			Yes
12. **Technology Operations and Concepts.** Students demonstrate a sound understanding of technology concepts, systems, and operations. Students:			Yes
a. Understand and use technology systems			Yes
b. Select and use applications effectively and productively			Yes
c. Troubleshoot systems and applications			Yes
d. Transfer current knowledge to learning of new technologies			Yes

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Reviewed by: _____ **Date:** _____

What are our goals and objectives in adopting Technology Standards for Students in the FSM?	▪ Goal(s)- To adopt appropriate technology standards to enhance learning for students ▪ Objective 1-Teacher training and resources are provided to positively impact on student achievements. ▪ Objective 2- Improve students accessibility to technology and digital resources. ▪ Objective 3- Students demonstrate understanding of technology concept, system, operation and maintenance.
What are possible formats for standards (see Learning Point Associates (NCREL) & Massachusetts DOE on FSM Tech Plan web site for examples)?	▪ Massachusetts Format ***with modifications to address FSM IT standards***
What are possible grade clusters	▪ ECE-2,

for Technology Standards for Students see Learning Point Associates (NCREL) & Massachusetts DOE on FSM Tech Plan web site for examples)?	▪ 3-5, ▪ 6-8, ▪ 9-12 FSM grading/test clustering (ECE-4, 5-6, 7-8, 9-10 & CP)

Standard, Description & Performance Indicators	Appropriate Yes	Appropriate No	Comments/Changes
13. **Creativity and Innovation.** Students demonstrate creative thinking, construct knowledge, and develop innovative products and processes using technology. Students:	✓		
a. Apply existing knowledge to generate new ideas, products and processes	✓		
b. Create original works as a means of personal or group expressions	✓		
c. Use models and simulation to explore complex systems and issues	✓		
d. Identity trends and forecast possibilities	✓		
14. **Communications and Collaboration**. Students use digital media and environments to communicate and work collaboratively, including at a distance to support individual learning and contribute to the learning of others. Students:	✓		
a. Interact, collaborate, and publish with peers, experts, or others employing a variety of digital environments and media	✓		
b. Communicate information and ideas effectively to multiple audiences using a variety of media and formats	✓		
c. Develop cultural understanding and global awareness by engaging with learners of other cultures	✓		

Standard, Description & Performance Indicators	Appropriate Yes	Appropriate No	Comments/Changes
d. Contribute to project teams to produce original works or solve problems	✓		
15. **Research and Information Fluency.** Students apply digital tools to gather, evaluate, and use information. Students:	✓		
a. Plan strategies to guide inquiry	✓		
b. Locate, organize, analyze, evaluate, synthesize, and ethically use information from a variety of sources and media	✓		
c. Evaluate and select information sources and digital tools based on the appropriateness to specific tasks	✓		
d. Process data and report results	✓		
16. **Critical Thinking, Problem Solving, and Decision Making.** Students use critical thinking skills to plan and conduct research, manage projects, solve problems, and make informed decision using appropriate digital tools and resources. Students:	✓		
a. Identify and define authentic problems and significant questions for investigation	✓		
b. Plan and manage activities to develop a solution or complete a project	✓		
c. Collect and analyze data to identify solutions and/or make informed decisions	✓		
d. Use multiple processes and diverse perspectives to explore alternative solutions	✓		
17. **Digital Citizenship.** Students understand human,	✓		

Standard, Description & Performance Indicators	Appropriate Yes	Appropriate No	Comments/Changes
cultural, and societal issues related to technology and practice legal and ethical behavior. Students:			
a. Advocate and practice safe, legal, and responsible use of information and technology	✓		
b. Exhibit a positive attitude toward using technology that supports collaboration, learning and productivity	✓		
c. Demonstrate personal responsibility for lifelong learning	✓		
d. Exhibit leadership for digital citizenship	✓		
18. **Technology Operations and Concepts.** Students demonstrate a sound understanding of technology concepts, systems, and operations. Students:	✓		
a. Understand and use technology systems	✓		
b. Select and use applications effectively and productively	✓		
c. Troubleshoot systems and applications	✓		
d. Transfer current knowledge to learning of new technologies	✓		