

Michigan Educational Technology Standards for Students (METS-S) 2009

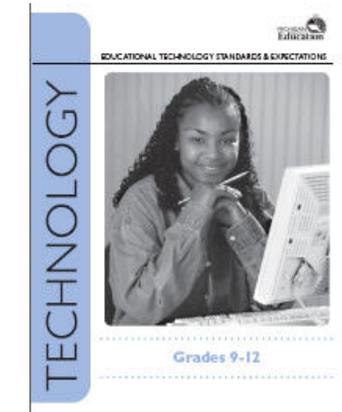
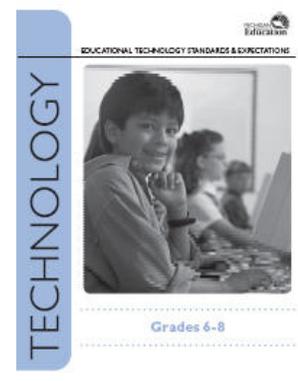
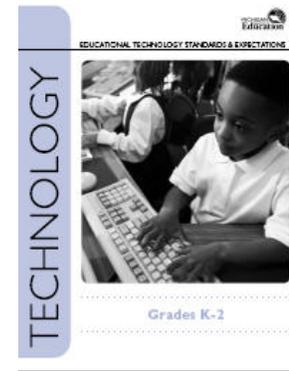


Grants Coordination and School Support
Educational Technology and Data Coordination

June 9, 2009

Michigan Educational Technology Standards (METS)

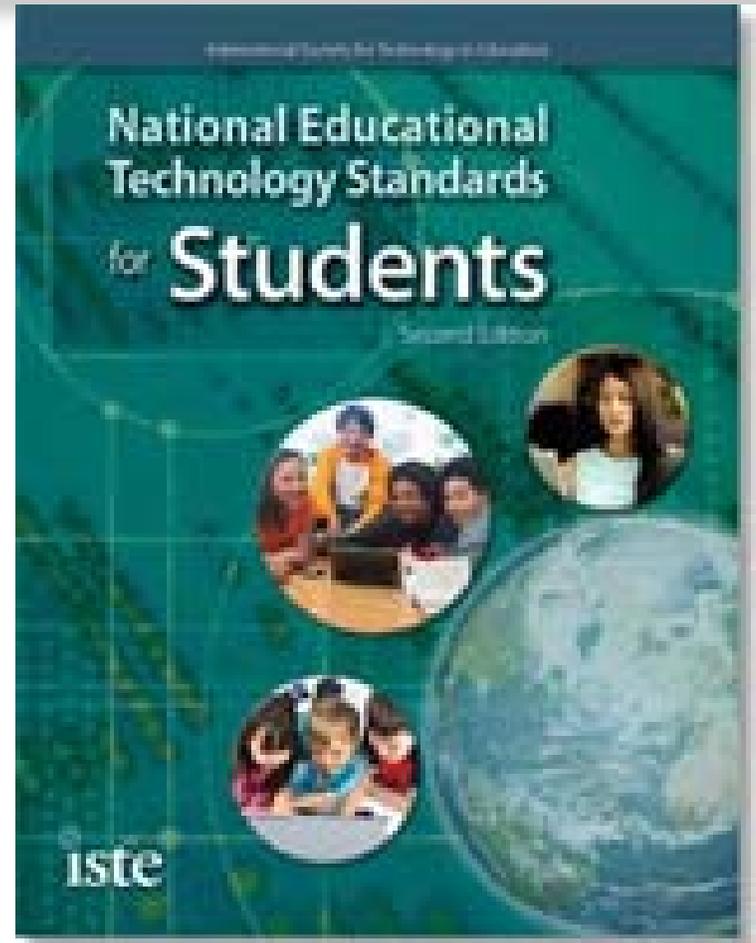
Existing Michigan Educational Technology Standards and Expectations were SBE approved in June 2005.





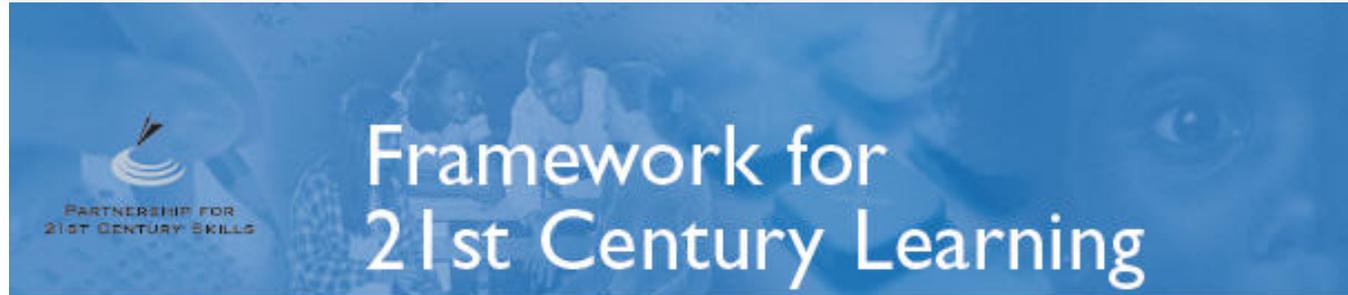
ISTE Updates 2007

The International Society for Technology in Education (ISTE), updated the national standards in 2007.





21st Century Student Outcomes and Support Systems



The Partnership for 21st Century Skills has developed a vision for 21st century student success in the new global economy.

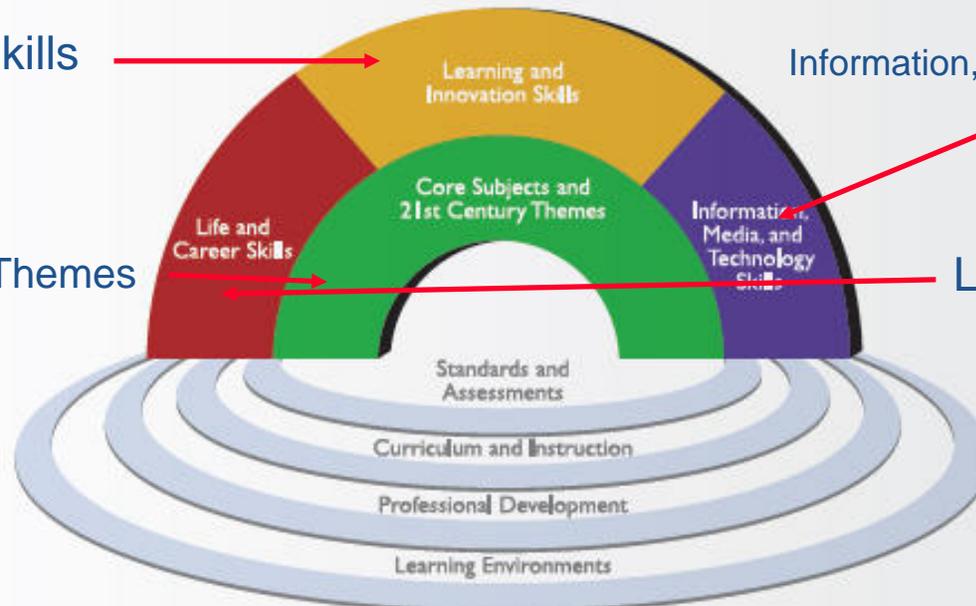
21st Century Student Outcomes and Support Systems

Learning and Innovation Skills

Information, Media and Technology Skills

Core Subjects and 21st Century Themes

Life and Career Skills





Partnership for 21st Century Skills

21st Century Student Outcomes

- Core Subjects and 21st Century Themes
- Learning and Innovation Skills
 - Creativity and Innovation
 - Critical Thinking and Problem Solving
 - Communication and Collaboration
- Information, Media and Technology Skills
 - Information Literacy
 - Media Literacy
 - Information Communication Technology Literacy
- Life and Career Skills



Internet Safety

Michigan Cyber Safety Initiative

- Protects students from predators
- K-8 focus
- Presentations, worksheets, and a community seminar
- ALL Michigan students!



Terminology Changed

METS 2005

- Basic Operations and Concepts
- Social, Ethical, and Human Issues
- Technology Productivity Tools
- Technology Communication Tools
- Technology Research Tools
- Technology Problem-Solving and Decision-Making Tools

ISTE 2007

- Creativity and Innovation
- Communication and Collaboration
- Research and Information Fluency
- Critical Thinking, Problem-Solving, and Decision Making
- Digital Citizenship
- Technology Operations and Concepts



Alignment with National Standards

Michigan Educational Technology Standards (METS) 2009 - PK-12

Alignment with NETS 2007 and the 21st Century Framework

Grades PK through 2 – Technology Standards and Expectations – (prior to completion of Grade 2)

METS Standard	NETS 2007	21 st Century
PK_2.CI Creativity and Innovation - By the end of Grade 2 each student will: 1. use a variety of digital tools (e.g., word processors, drawing tools, simulations, presentation software, graphical organizers) to learn, create, and convey original ideas or illustrate concepts	1. Creativity/Innov. 2. Comm. / Collab. 6. Oper. / Concepts	C S, 21st Cent. I, M, T Skills
PK_2.CC. Communication and Collaboration - By the end of Grade 2 each student will: 1. work together when using digital tools (e.g., word processor, drawing, presentation software) to convey ideas or illustrate simple concepts relating to a specified project 2. use a variety of developmentally appropriate digital tools (e.g., word processors, paint programs) to communicate ideas to classmates, families, and others	NETS 2007 2. Comm. / Collab. 6. Oper. / Concepts 2. Comm. / Collab. 6. Oper. / Concepts	21 st Century L, I Skills L, I Skills C S, 21st Cent.
PK_2.RI. Research and Information Fluency - By the end of Grade 2 each student will: 1. interact with internet based resources 2. use digital resources (e.g., dictionaries, encyclopedias, graphs, graphical organizers) to locate and interpret information relating to a specific curricular topic, with assistance from teachers, school library media specialists, parents, or student partners	NETS 2007 3. Res. / Info. Lit. 6. Oper. / Concepts 3. Res. / Info. Lit. 6. Oper. / Concepts	21 st Century I, M, T Skills C S, 21st Cent. I, M, T Skills C S, 21st Cent.
PK_2.CT. Critical Thinking, Problem Solving, and Decision Making - By the end of Grade 2 each student will: 1. explain ways that technology can be used to make decisions and solve problems (e.g., cell phones, traffic lights, GPS units) 2. use digital resources (e.g., dictionaries, encyclopedias, search engines, web sites) to solve developmentally appropriate problems, with assistance from teachers, parents, school library media specialists, or student partners	NETS 2007 4. CT, PS, DM 6. Oper. / Concepts 4. CT, PS, DM 6. Oper. / Concepts	21 st Century Crit Think / Prob. Crit Think / Prob.
PK_2.DC. Digital Citizenship - By the end of Grade 2 each student will: 1. describe appropriate and inappropriate uses of technology (e.g., computers, internet, e-mail, cell phones) and describe consequences of inappropriate uses 2. know the Michigan Cyber Safety Initiative's 3 rules (Keep Safe, Keep Away, Keep Telling) 3. identify personal information that should not be shared on the internet (name, address, phone number, picture, school name) 4. know to inform a trusted adult if they receive or view an online communication which makes them feel uncomfortable, or if someone whom they don't know is trying to communicate with them or asking for personal information	NETS 2007 5. Digital Citizens. Internet Safety 5. Digital Citizens. Internet Safety 5. Digital Citizens. Internet Safety	21 st Century C S, 21st Cent. I, M, T Skills I, M, T Skills I, M, T Skills
PK_2.TC. Technology Operations and Concepts - By the end of Grade 2 each student will: 1. identify common uses of technology found in daily life 2. discuss advantages and disadvantages of using technology 3. be able to use basic menu commands to perform common operations (e.g., open, close, save, print) 4. recognize, name, and label the major hardware components in a computer system (e.g., computer, monitor, keyboard, mouse, printer) 5. discuss the basic care for computer hardware and various media types (e.g., CDs, DVDs, videotapes) 6. communicate about technology using developmentally appropriate and accurate terminology 7. understand that technology is a tool to help them complete a task, and is a source of information, learning, and entertainment 8. demonstrate the ability to navigate in virtual environments (e.g., electronic books, games, simulation software, web sites)	NETS 2007 5. Digital Citizens. 6. Oper. / Concepts 6. Oper. / Concepts	21 st Century I, M, T Skills I, M, T Skills

NETS 2007

21st Century Learning



Opportunities for Input

- Fall 2008 – Educational Technology Advisory Group
- Fall 2008 – Technology directors listserv and REMC association
- Open for public comment at www.techplan.org



Review Committee

- REMC RITS (Regional Instructional Technology Specialists)
- MAISA Technology Committee
- Media Specialists
- MDE – Educational Technology



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