



Using Technology

Why go this route?

People in the 21st century live in a technology and media-suffused environment, marked by:

- access to an abundance of information
- rapid changes in technology tools
- the ability to collaborate and make individual contributions on an unprecedented scale.

To be effective in the 21st century, citizens and workers must be able to exhibit a range of functional and critical thinking skills related to technology such as:

- Collaborating and communicating with colleagues
- Finding links to lesson plans that support goals and objectives
- Finding media resources and support materials
- Accessing classroom management systems
- Creating homepages, web pages, and blogs
- Producing professional-looking documents

You'll know you've arrived when...

- Use technology as a tool to research, organize, evaluate and communicate information
- Use online learning solutions to enhance your teaching and encourage student learning
- Your students use technology to develop skills, meet objectives, and can evaluate information surrounding its access and use
- Use digital technologies (computers, PDAs, media players, GPS, etc.), communication/networking tools and social networks appropriately to access, manage, integrate, evaluate and create information

Construction Zone

- Teachers must feel comfortable using technology.
- Schools need a sufficient number of computers for staff and student use.



It's about TIME

- Time required to complete projects will vary
- Time for professional development (if needed)
- Opportunities for teacher collaboration about student work and to share ideas



Potential COSTS

- Paper and ink cartridges are on-going expenses
- Computers capable of connecting to the internet
- Projection device (optional)
- Professional development



The Process

A step-by-step guide to using technology to enhance your teaching and prepare students to become productive citizens in a global society.

“For many years, I have told students, ‘Do not do what I do; rather, take whatever I have to offer and do with it what I could never imagine doing and then come back and tell me about it.’ My hope is that our education systems will be shaken out of their complacency and will open teaching and learning to a future we cannot conceive.”

– Mark C. Taylor, Ph.D., Columbia University

1 Review the Michigan 2010 Educational Technology Plan

<http://www.techplan.org/>

This includes the 2010-2012 goals and objectives of the Michigan State Board of Education and the Michigan Department of Education (MDE) related to increasing and improving learning options and outcomes for all Michigan PK-16 students through effective application of educational technology and data to inform instruction. The purpose of the Plan is to prepare ALL Michigan students to become productive citizens in a global society.

2 Become familiar with the Michigan Education Technology Standards for students

<http://techplan.edzone.net/METS/>

3 Use the following links shared by the Regional Instructional Technology Specialists (REMC RITS)

- **21things Project** – 21things for the 21st Century Educator is available and teachers can receive SB-CEUs for this participating in this program that is connected with Marzano and partners with MDE.
21things4teachers <http://www.21things4teachers.net>
21things4administrators <http://www.21things4administrators.net>
21things4students <http://www.21things4students.net>
 - **M.O.R.E. portal** – Michigan Online Resources for Educators.
<http://more.mel.org>.
Locate lesson plans and curriculum aids that are searchable by subject or state standard.
 - **REMC** <http://remc.org/>
Spotlight links to the streaming video library, MLO portal, 21students, and more.
 - **Microsoft Tutorials**
<http://office.microsoft.com/en-us/training-FX101782702.aspx>
 - **Mac Tutorials** <http://www.apple.com/findouthow/mac/>
 - **Mac for Beginners** <http://www.macforbeginners.com/>
 - **Google in Education** <http://www.google.com/educators/index.html>
Support for teachers in their efforts to empower students and expand the frontiers of human knowledge.
 - **Google Apps** <http://www.google.com/apps/intl/en/edu/>
 - **Wayne RESA's iPads in Education Wiki**
<http://resa-ipads.wikispaces.com/>
Wide variety of iPad resources: Getting started with the iPad; Guides, Tips, and How-tos; Lists of Apps and Reviews, iPad Accessories.
 - **Michigan Learnport** <http://www.learnport.org>
Provides online learning solutions for educators: Access high-quality online courses and resources that meet professional development requirements, earn SB-CEUs and more.
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Getting more mileage from using technology

How Using Technology benefits your school in regard to the following initiatives:

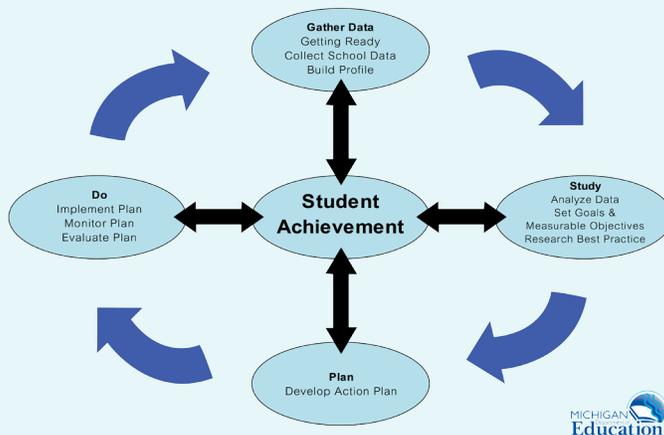
Elementary and Secondary Education Act (ESEA)

- Technology planning is federally mandated for local school agencies seeking technology funding from federal programs, including the Universal Service Fund (E-Rate) and ESEA legislation (Ed-Tech Guide). As a result, technology plans must meet federally established criteria and be approved by the state.

State Accreditation System

- Educators have access to data for effective classroom decision-making and school improvement planning through an integrated local and statewide decision support system, and have access to professional learning opportunities to develop competencies in data-driven decision making.

Michigan Continuous School Improvement Process (Mi-CSI) Michigan School Improvement Framework



Students will have meaningful technology-enabled learning opportunities required to become lifelong learners.

Leadership for educational technology encourages the expansion and development of transformative learning environments that increase student academic achievement.

Educators will have competencies in 21st Century Skills.

Stakeholders will understand the impact educational technology, including virtual learning options and data have on informing and improving instruction.



Resources

Books, Articles, Websites

Michigan Educational Technology Planning

<http://www.techplan.org/>

Regional Educational Media Center Association of Michigan

<http://www.remc.org/>

Partnership for 21st Century Skills

<http://21stcenturyskills.org/>

People

Intermediate School Districts/
RESAs can serve as a resource.

The 22 Regional Educational Media
Centers of Michigan provide services
and resources to local districts.

Contact one in your area.

<http://www.remc.org/centers/>

For more information, contact

Michigan Department of Education

Office of Education
Improvement and Innovation
517-241-3147

School Improvement Unit
517-373-8480

Curriculum and Instruction Unit
517-241-4285

Educational Technology and
Data Coordination
517-241-3629

Office of Assessment
and Accountability
517-373-0048

Office of Early Childhood and
Family Services
517-241-3592

Office of Field Services
517-373-3921

Office of Professional Preparation
and Teacher Certification
517-373-6505

Office of Special Education
and Early Intervention Services
517-373-9433

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Compliance With Federal Law

The Michigan Department of Education complies
with all Federal laws and regulations prohibiting
discrimination, and with all requirements and
regulations of the U.S. Department of Education.



www.michigan.gov/mde