

21 Things 4 Students
REMC Association of Michigan

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Introduction by Carolyn McCarthy

21t4s Teaching Resources

Teacher Start Page

TEACHERS

Teacher Start Page

Teacher Registration

Teacher Guides

Accommodations

Assessment

Feedback & Evaluation

Competencies & Standards

Teacher Resource Login

TechBootCamp

Updates

- General Information Plus important 21t4s teaching tools:

Goals of 21things4students



About Things, Quests, and Roadmap



Teacher Handbook, Lesson Guides, Listserv, and Syllabus



Student Checklists



Quizzes (Quizlet and ProProfs)



How to Access the REMC Resources on the REMC.ORG website



Teacher Registration and Teacher Guides

TEACHERS

Teacher Start Page

Teacher Registration

Teacher Guides

Teachers
Register
Here

- Teacher Lesson Guides

About this Thing

Learning Objectives

Quests- About this Quest and Completion Time

Key Vocabulary

Materials and Bonus Materials

Tools/Apps

Preparation

Assessment

Additional Training

Student Checklists are linked to on the first page of each **Thing page**

[Visit #1 Basics](#)
[Teachers Guide](#)

Accommodations

TEACHERS

- Teacher Start Page
- Teacher Registration
- Teacher Guides
- Accommodations**

- UDL Framework

Accessibility Features by Computing O/S Type

System	Accessibility Guide	Keyboard Shortcuts
Windows	https://goo.gl/bGeA1V	https://goo.gl/z97MKy
Mac/Apple	https://goo.gl/zjVGpp	https://goo.gl/nmBMHq
Chromebook	https://goo.gl/2xUvOC	https://goo.gl/ZglSif
iPad/iOS	https://goo.gl/8hrZX1	NA
Android	https://goo.gl/XhNVS5	NA

Vision Accommodations and Resources

Hearing Accommodations/Resources

Reading Accommodations/Resources

Motor Accommodations/Resources

Communication Accommodations/Resources

Assignment/Assessment Accommodations

Type of Output shouldn't matter – CONTENT SHOULD

Individual Project	Large Group Instruction	Reading Assignment	Small Group Project
Presentation	Poster Project	Song	Skit
Powerpoint	Prezi	Video	Blog

Personalizing + Accommodations for Students

THING 3: My Digital Life contains

Q2. Making it Your Own

Auditory, Speech and Visual Aids

Special Operations Tips

Reading and Studying Aids

Thing 4: Suite Tools includes

Sweet Tools for Google or Microsoft 365:
Voice dictate, Text2Speech, Immersive Reader, and Translation

Q3. Let's Get Organized

Play to Learn Choice Board

	Column A	Column B	Column C
Row 1	Annotation (Onenote, Diigo, Hypothes.is, Save to .pdf, iPad apps)	Bookmarking (Diigo, Wakelet)	Reminders (Calendars, Google calendar)
Row 2	Sticky Notes (Trello, Padlet)	Study Tools (Quizlet, Wolfram, GeoGebra, GCF LearnFree, MeL)	Summarizing (Text Compactor, Summarize This)
Row 3	To Do's (Google Keep, Microsoft ToDos, Microsoft Tasks)	Timers (Classroom timers, Online Stopwatch, Pomodoro & Blocking Distractions)	Vocabulary (Rewordify, Wordsmyth, Vocabulary)

Assessment

- Portfolios of student work

1. Web-based portfolios

- Weebly
- Edublogs
- District web pages
- ***Privacy

2. Shared application-based portfolios

- Google docs
- OneNote or OneDrive

3. CMS or LMS

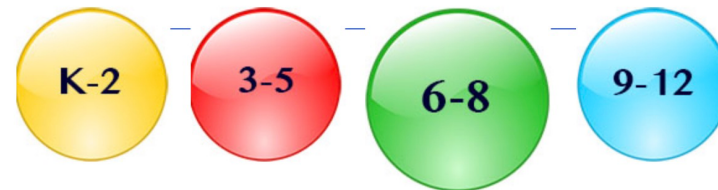
Blackboard, Edmodo, Google Classroom, Moodle, Schoology

4. District File Management system

Folders on a drive stored locally

Some digital portfolio options for students

- Rubrics in Teachers Guides
- Quizlet Vocabulary Quizzes with each Quest
- Technology Skills Assessment
 - Pre- and Post-



Assessment

Technology Skills Assessment

Feedback & Evaluation

Feedback & Evaluation

- Graduation Page for each Thing is a link to a survey for students to provide feedback.

[short survey](#) to share your ideas on how to improve these activities

- The Student checklists were added
- Revisions are made annually
- Coding added and updated



1. Basics Graduation Certificate

- "Thing" Quiz
- Personal Learning Goals Document added to Thing 1 Basics Q1
- Digital Badges available to teachers
- Rubrics



5. Digital Footprint Badge

Competencies & Standards

Competencies & Standards

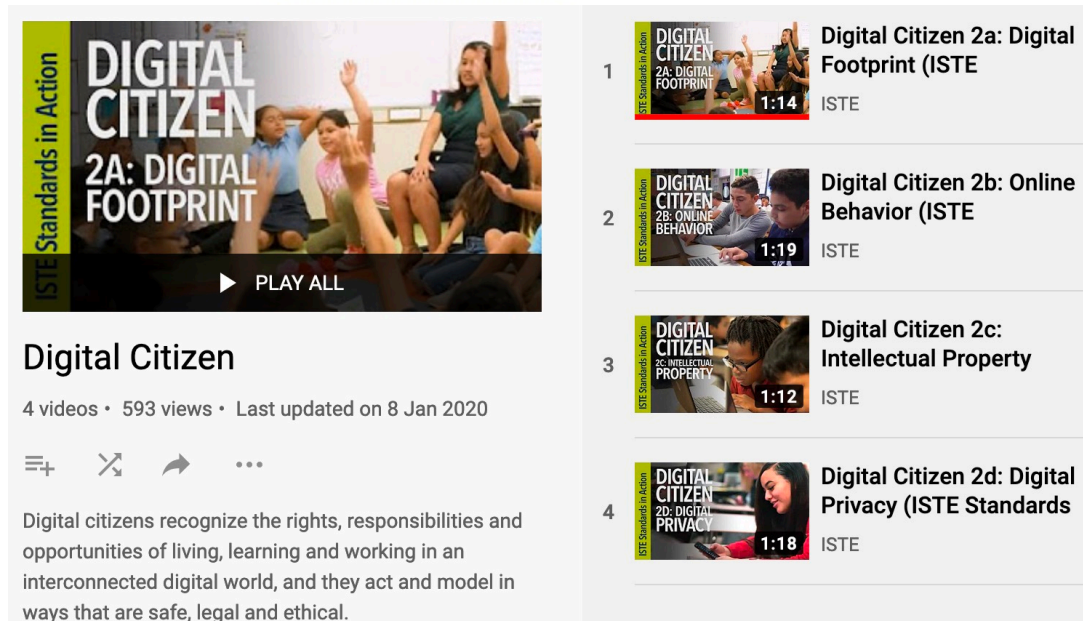
- [Michigan Integrated Technology Competencies for Students \(MITECS\)](#)
- [ISTE Standards-s iste.org](#) and Educators, Education Leaders, and Coaches
- [Technology Integration Framework](#)

Michigan MITECs Competencies Based on [ISTE Standards](#) for students

1. Empowered Learner
2. Digital Citizen
3. Knowledge Constructor
4. Innovative Designer
5. Computational Thinker
6. Creative Communicator
7. Global Collaborator

- Each has a video Playlist in YouTube to explain them.

[▶ WATCH PLAYLIST](#)



The screenshot shows a YouTube playlist interface. The main video player displays a thumbnail for 'DIGITAL CITIZEN 2A: DIGITAL FOOTPRINT' with a 'PLAY ALL' button. Below the player, the playlist title 'Digital Citizen' is shown, along with '4 videos • 593 views • Last updated on 8 Jan 2020'. A list of four videos is visible on the right side of the screen:

Video Number	Video Title	Duration	Channel
1	Digital Citizen 2a: Digital Footprint (ISTE)	1:14	ISTE
2	Digital Citizen 2b: Online Behavior (ISTE)	1:19	ISTE
3	Digital Citizen 2c: Intellectual Property	1:12	ISTE
4	Digital Citizen 2d: Digital Privacy (ISTE Standards)	1:18	ISTE

ISTE Standards for Educators

1. Learner
2. Leader
3. Citizen
4. Collaborator
5. Designer
6. Facilitator
7. Analyst

ISTE Standards for Education Leaders

1. Equity and Citizenship Advocate
2. Visionary Planner
3. Empowering Leader
4. Systems Designer
5. Connected Learner

ISTE Standards for Coaches

1. Change Agent
2. Connected Learner
3. Collaborator
4. Learning Designer
5. Professional Learning Facilitator
6. Data-Driven Decision-Maker
7. Digital Citizen Advocate

Best Practice in Action

- Based on McREL “Tech Best Practice” and their “Using Technology with Classroom Instruction that Works, 2nd ed.” framework.

<p>Setting Objectives “Learning Objectives” listed on each Thing and Quest stating what you will “know, understand, and be able to do”</p>	<p>Providing Feedback Evaluating Portfolios using rubrics, corrective comments, and peer engagement.</p>	<p>Reinforce Effort Sharing effort stories - what the expectations are for each Quest and Thing</p>
<p>Providing Recognition Awarding Badges and Certificates; showcasing student work</p>	<p>Cooperative Learning Four Square, T/P/S, Jigsaws, group projects; promote positive interdependence and individual accountability</p>	<p>Cues & Questions Use of videos, vocabulary (e.g. flash cards), and concepts (e.g. online polls) to set up the lessons</p>
<p>Advance Organizers Student Checklists and Roadmaps to show progress and next steps.</p>	<p>Nonlinguistics Use of visual organizers, mindmaps, and images</p>	<p>Summarizing & Notetaking Social bookmarking tools to take notes, highlight, annotate, and etc.</p>
<p>Assigning Homework Course/Learning Management Systems to chart progress outside of class</p>	<p>Providing Practice Typing or online practice activities; requiring students to perform at mastery level for proficiency</p>	<p>Identifying Similarities & Differences Compare, Classify, Metaphors, or Analogies of programs, apps, domains, resources, etc.</p>
<p>Generating & Testing Hypotheses Student use of screencasting to demonstrate, or Infographics to show problem solution</p>	<p>Best Practice in Action... <i>How teachers use 21things4students to integrate technology and best practice.</i></p>	

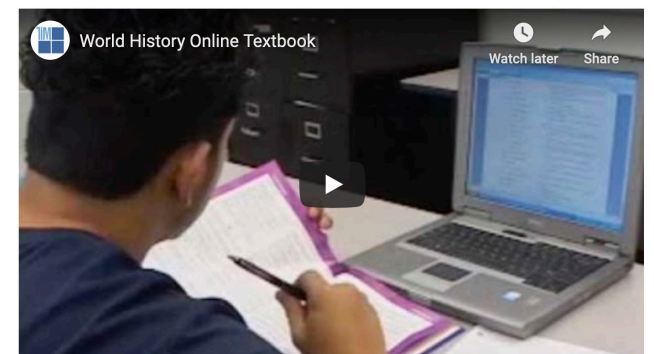
Florida Technology Integration Matrix

Students:	ENTRY	ADOPTION	ADAPTATION	INFUSION	TRANSFORMATION
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- ACTIVE Listening
- COLLABORATIVE Learning
- CONSTRUCTIVE Learning
- AUTHENTIC Learning
- GOAL-Directed Learning

	X				

Chart for a lesson



Video Example for Each –
World History Online Textbook

Teacher Resource Guest Login

USERNAME: 21t4steacher
PASS: 21teacher2018

Teacher Resource Login

Guest Logon *

Username

Password

- Badges & Award Certificates
- Example of CMS or LMS
- Standards Alignment
- Assessment Pro Profs Quizzes
- Assessment Bank with answers

Teacher Resource Login

Teacher Resources

Additional Tools & Resources

- Listserv to join
- MiTechKids link
- Moodle zipped version
- SOPPA (Student Online Personal Protection Act)
- Teaching help
- Portfolio resources

** The login is found in the Registration Survey when you take it.*

Updates

Updates

Updates

Teacher Resources

This is where we post notes about any changes to links or content (due to a site or resource being no longer available or revision work) through the school year.

REVISIONS/UPDATES for 2019-20

March-April 2020

- [Teacher Accommodations](#): Added a new video of Strategies for teaching with technology
- [Teacher Start Page](#): Added a new video about design and planning considerations for a digital age classroom
- Started a new [Digital Citizenship Page](#) in Teacher Resources

The Advisory committee has identified the **following list for 2020 summer additions and/or revisions**. If you have additional suggestions please email us your suggestions.

- Basics
- Visual learning
- Troubleshooting
- Interactives
- Google/Chrome Advanced Features
- Office 365 Advanced Features

- **Updates:** changes and new news is posted
- The site links are updated daily as needed
- Two to three things are updated by a revision team of teachers each year during the summer.



This is more than an Index, it can also be a Curriculum and technology integration planning tool

Sortable with filters by:

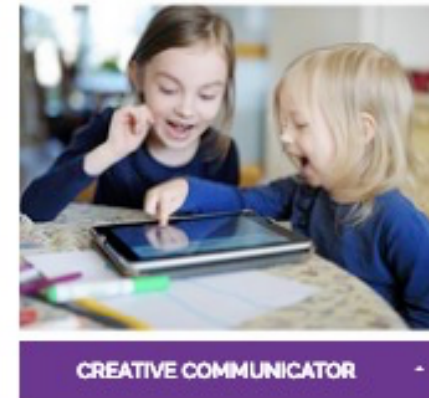
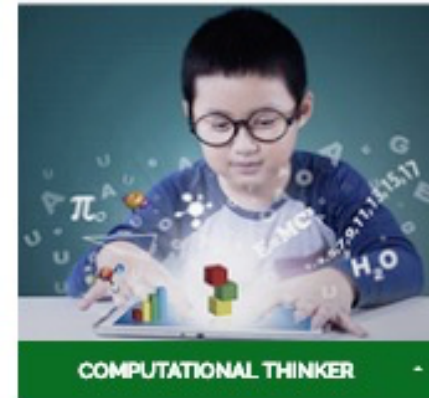
- Thing
- Technology Standard
- App/Program
- Key Vocabulary
- CCSS/CCRA Strand & Domain as available (being added to annually)

Example: Index filtered by ELA and Computational Thinker Yields 21 results:

Quest Name	Thing	MITECs & ISTE Standard	App/Program	Activity Description	Key Vocabulary	CCSS/CCRA Strand & Domain	Standard
Q1 Fire Rescue	2	Computational Thinker, Creative Communicator, Knowledge Constructor	Popplet, Bubbl.us	Use a graphic organizer for planning.	Graphic organizer, Visual map	ELA-Literacy, Writing	W.4
Q2 Thrill Rides	2	Computational Thinker, Creative Communicator, Knowledge Constructor	Popplet, Bubbl.us	Create a graphic organizer to brainstorm.	Brainstorm, Graphic organizer, visual map	ELA-Literacy, Writing, Matter-Science	W.1, W.2, W.4, MS-PS.3.a, MS-PS.3.b
Q1 Murphy's Law	8	Empowered Learner, Computational Thinker	Flowchart	Students watch videos about basic troubleshooting, malware and viruses and create a troubleshooting chart.	Malware, VirusELA.	ELA-Literacy, Writing	W.4, W.5
Q2 Now What?	8	Empowered Learner, Computational Thinker	Bubbl.us, Glify	Students use a flowchart to solve specific computer problems.	Troubleshoot, Flowchart	ELA-Literacy, Writing	W.4, W.5
Q4 Citing Your Source	9	Empowered Learner, Computational Thinker	MeL, Bibme, Citation Makers	How to cite sources correctly Students learn to use	Boolean Logic, Citation	ELA-Literacy, Writing	W.7, W.8

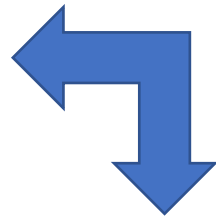
FYI: [MITECHKIDS.org](https://mitechkids.org) K-5 Resources for teachers

- Target: K-5 teachers
- Competency and Standards aligned
- Short integration ‘Taskcard’ activities teachers can use and implement
- Arranged by Grade-Level
 - Arranged by Technology Standard Areas
- Has an Awesome Index

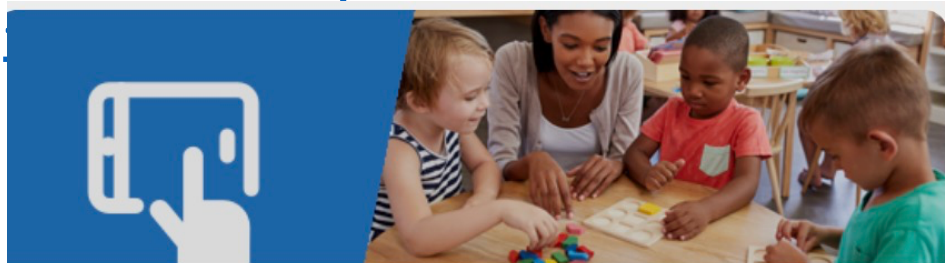


REMC: Digital Citizenship Toolkit

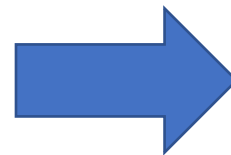
- www.remc.org



- Classroom Resources
- <https://www.remc.org/classroom>



CLASSROOM RESOURCES
Improve Learning



Digital Citizenship Toolkit

Media Literacy Toolkit

Classroom Makers

MI Tech Kids

21 Things 4 Students

Ipads in Action

Coding & Drones

MiStreamnet