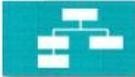


INTRODUCING

<https://www.remc.org/21things4students/>

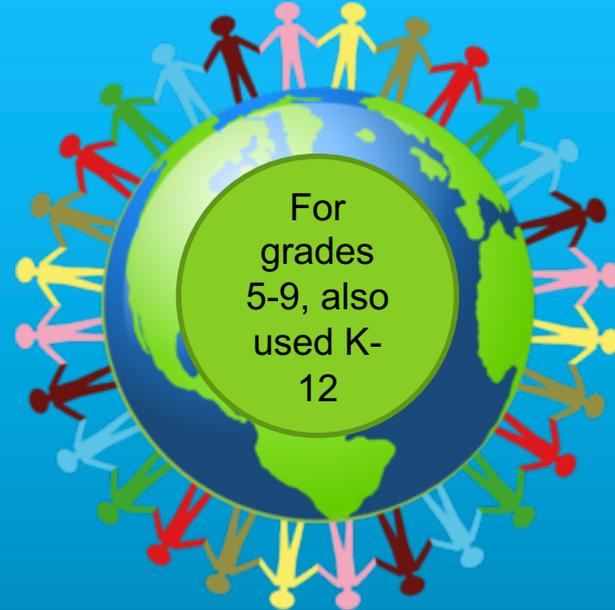
an Open Educational Resource
designed for grades 5-9 & used K-12

	1 - Basics		8 - Troubleshooting		15 - Design Thinking
	2 - Visual Learning		9 - Search Strategies		16 - Career Prep
	3 - My Digital Life		10 - Digital Images		17 - Creative Communications
	4 - Collaboration		11 - Powerful Presentations		18 - Digital Storytelling
	5 - Digital Footprint		12 - Interactives		19 - Buyer Beware
	6 - Cyber Safety		13 - Dig the Data		20 - Global Collaboration
	7 - Be Legal & Fair		14 - Social Networking		21 - Computational Thinking

FREE!

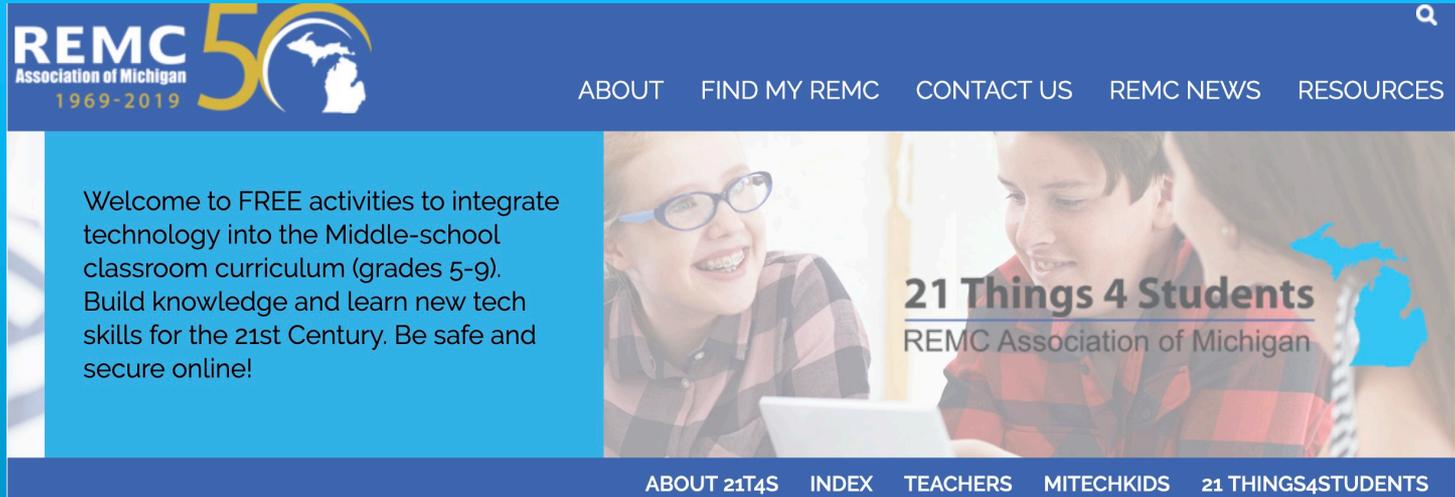
RESOURCES TO HELP BUILD TECHNOLOGY PROFICIENCY FOR STUDENTS

➤ Millions of students use these resources that are aligned to Michigan Technology Competencies (MITECS) and International Technology Standards (ISTE)



+ Providing positive online learning experiences

'21Things' are made up of 146 Quests = Fun projects that build technology skills



The screenshot shows the website for REMC Association of Michigan. The header is dark blue with the REMC logo on the left, which includes the text 'REMC Association of Michigan 1969-2019' and a large '50' with a map of Michigan. On the right of the header are navigation links: 'ABOUT', 'FIND MY REMC', 'CONTACT US', 'REMC NEWS', and 'RESOURCES'. A search icon is also present. The main content area has a light blue background on the left with the text: 'Welcome to FREE activities to integrate technology into the Middle-school classroom curriculum (grades 5-9). Build knowledge and learn new tech skills for the 21st Century. Be safe and secure online!'. On the right is a large image of three students looking at a tablet, with the text '21 Things 4 Students' and 'REMC Association of Michigan' overlaid. A small map of Michigan is also visible in the image. At the bottom of the main content area is a dark blue navigation bar with links: 'ABOUT 21T4S', 'INDEX', 'TEACHERS', 'MITECHKIDS', and '21 THINGS4STUDENTS'.

REMC
Association of Michigan
1969-2019

ABOUT FIND MY REMC CONTACT US REMC NEWS RESOURCES

Welcome to FREE activities to integrate technology into the Middle-school classroom curriculum (grades 5-9). Build knowledge and learn new tech skills for the 21st Century. Be safe and secure online!

21 Things 4 Students
REMC Association of Michigan

ABOUT 21T4S INDEX TEACHERS MITECHKIDS 21 THINGS4STUDENTS

4 Parts separated on the [Independent Learning Page](#)

21 THINGS are 21 BIG IDEAS

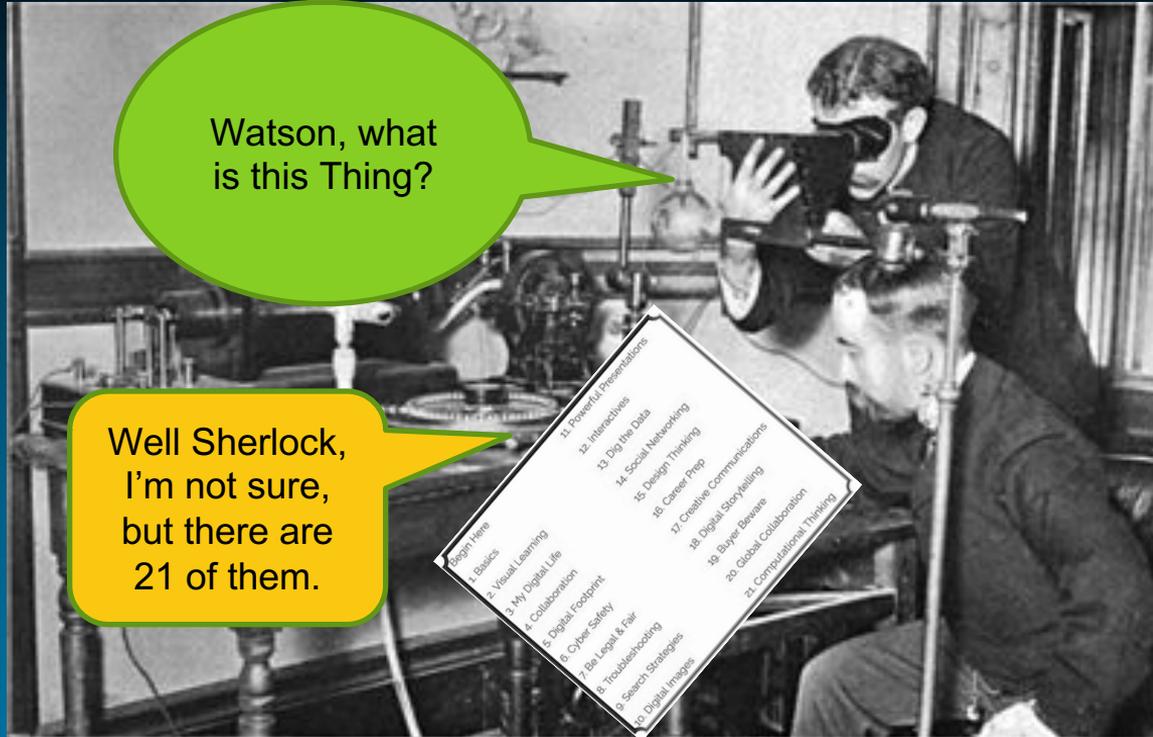
- Each 'Thing' is broken down into smaller quests.
- Quests are project-based activities using FREE internet resources.

	1 - Basics		8 - Troubleshooting		15 - Design Thinking
	2 - Visual Learning		9 - Search Strategies		16 - Career Prep
	3 - My Digital Life				17 - Creative Communications
	4 - Collaboration				18 - Digital Storytelling
	5 - Digital Footprint				19 - Buyer Beware
	6 - Cyber Safety				20 - Global Collaboration
	7 - Be Legal & Fair				21 - Computational Thinking

5. Digital Footprint

- Q1 Managing Your Footprint
- Q2 Your Evolving Footprint
- Q3 Web Presence
- Q4 Getting Social
- Q5 Balancing My Media

Anatomy of a Thing



Anatomy of a Thing

Each Thing page has:

- Top animated video or image
- Introduction to the Thing (a big idea)
- Learning Objectives
- Side menu showing the Quests
- Teacher Guide
- Learning Objectives Slide
- Resources
- Print to pdf ability



The screenshot shows a webpage titled "Anatomy of a Thing Page" for "21 Things 4 Students" by the REMC Association of Michigan. The page is for the topic "7. Be Legal and Fair". It features a top navigation bar with links for "ABOUT 21T4S", "INDEX", "TEACHERS", "MITECHKIDS", and "21 THINGS4STUDENTS". The main content area includes a video player with a play button, a "Direct link to the video" link, an "INTRODUCTION" section with text about copyright and piracy, and a "LEARNING OBJECTIVES" section with four numbered points. A right-hand sidebar contains a table of contents for all 21 things, with "7. Be Legal & Fair" highlighted. Below the sidebar are links for "Teacher Guide", "Learning Objectives Slide", and a "Print this page" button.



Do you have a
Quest?

For which
Thing?



[This Photo](#) by Unknown Author is licensed under [CC BY-NC-ND](#)

Anatomy of a Quest

Q1 Copyright Laws **Quest name**

7. Be Legal & Fair **Thing name**

Video

Direct link to the video

INTRODUCTION

Have you ever taken something that didn't belong to you? Most not. Have you ever downloaded music, movies, or games without permission? Most honest people probably have. Did you know that when you download something from the Internet you may be infringing on someone's copyright? You need to find out what the laws are for using materials found on the Internet and what the laws apply to you and your activities online?

KEY VOCABULARY

Fair Use: Fair Use (in US copyright law) is a doctrine that brief excerpts of copyright material may, under certain circumstances, be quoted verbatim for purposes such as criticism, news reporting, teaching, and research, without the need for permission from or payment to the copyright holder.

Copyright: Copyright is the legal right to be the only one to reproduce, publish, and sell a book, musical recording, etc., for a certain period of time.

Public Domain: Public Domain is the state of anything that is not protected by copyright or other laws.

Creative Commons: Creative Commons licenses allow others to use your work under certain conditions, but allow you to retain copyright and control over your work.

21 THINGS4STUDENTS

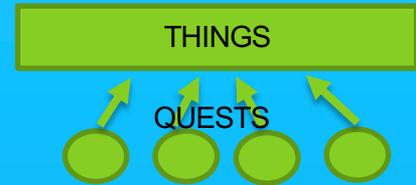
1. Basics
2. Visual Learning
3. Cloud Initiation
4. Collaboration
5. Digital Footprint
6. Cyber Safety
7. Be Legal & Fair
8. Troubleshooting
9. Search Strategies
10. Digital Images
11. Powerful Presentations
12. Interactives
13. Big Data
14. Social Networking
15. Design Thinking
16. Career Prep
17. Creative Communications
18. Digital Storytelling
19. Buyer Beware
20. Mobile Computing
21. Coding and Game Design

7.Q1 Student Checklist

Q **Quizlet- Copyright Laws Quiz**

MITECS, ISTE and Common Core Standards

Websites and Applications



Anatomy of a Quest bottom of the page

I CAN STATEMENTS

- follow copyright laws
- create a digital artifact to demonstrate knowledge of copyright

STEPS

1. Visit <http://www.copyrightkids.org/>, and read through the Copyright Basics & FAQs (Frequently Asked Questions) page. Your teacher may want to go over these with you.

Look for additional answers to common questions at cyberbee.com

Videos about Copyright, Fair Use, and Plagiarism

Create a Digital Artifact

Copyright Quiz

COMPLETING THIS QUEST

In order to successfully complete this Quest you must provide your teacher with accurate information about copyright by handing in your questions and quiz results. Save your digital artifact to your File Space or post it to your digital portfolio online.

- Check off this Quest on the z14s roadmap
- [I am ready for the next Quest: The Source](#)

Prints lots of pages! Expand the boxes before printing.

QUESTS FEATURE

- ❖ Animated video introductions
- ❖ I Can statements
- ❖ Learning objectives and key vocabulary
- ❖ Step by step directions and tutorials
- ❖ Pre and post quizzes
- ❖ Meet MITEC technology competencies important for success in school, work, and life
- ❖ Student checklists and a Teacher Guide for each Quest



Digital
Portfolio of
Projects

6. Cyber Safety Quest 8: Stop the Bully

Check off	Description
<input type="checkbox"/>	Watched the introductory video on Cyber Safety Q8 Nobody likes a bully
<input type="checkbox"/>	Read the Introduction, Key Vocabulary and I Can Statements
<input type="checkbox"/>	Took the Quizlet Key Vocabulary Quiz
<input type="checkbox"/>	Reviewed what was learned in Cyber Safety

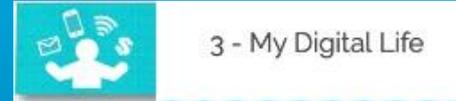
GOAL 1

Help students become “Empowered Learners” by improving technology skills

Set and reflect on
Personal Learning
Goals



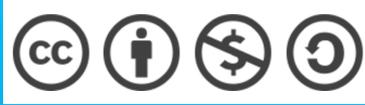
Q2 Image Magic
10. Digital Images



	Keyboard keys	Mission accomplished	Mac	PC
1	Select text quickly	Select an entire word Select an entire sentence (or even paragraph)	Double click on a word And then try triple click	Double click And then triple click
2	Copy Paste	Copy something And then... Paste it. Hold down the Control or Command key and press the key indicated	⌘C ⌘V or F4	Ctrl c Ctrl v

GOAL 2

Help students learn to be safe and smart online and be good “Digital Citizens”



Username & Passwords



GOAL 3

Help students think critically about online resources and use them to effectively create and construct artifacts



Bookmarking

9. Search Strategies

- Q1 Michigan eLibrary
- Q2 Safe Searching
- Q3 Web Site Evaluation
- Q4 Citing Your Source
- Q5 Fake or Real News



Fake or Real News



17. Creative Communications

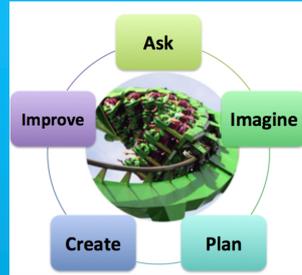


Q4 Promote Yourself
16. Career Prep

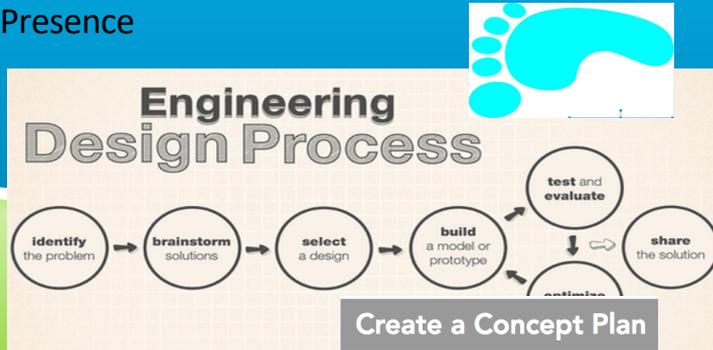
GOAL 4

Help students engage in problem-solving, planning and design thinking

2. Visual Learning and 5-step Engineering Process



5. Digital Footprint and Planning a Web Presence



15. Design Thinking

- Q1. What is Design Thinking?
- Q2. What's Your Problem?
- Q3. Big Ideas
- Q4. Prototypes
- Q5. Test & Improve
- Q6. Reflect & Share

21. Computational Thinking

- Q1 What is Computational Thinking?
- Q2 Decomposition
- Q3 Patterns
- Q4 Abstraction
- Q5 Algorithm
- Q6 Evaluation

GOAL 5

Help students discover and use tools and strategies for collecting and analyzing data

 **WolframAlpha** computational knowledge engine Start by clicking on
Q3 Interactive Study Tools
12. Interactives

Text Compactor
Free Online Automatic Text Summarization Tool

 **SummarizeThis™**



13. Dig the Data

Q6 Spin Out

13. Dig the Data

- Part 1 Spin and collect the data
- Part 2 Formulas
- Part 3 Analysis, prediction and global results
- Part 4 Delivery Problem (advanced option)



9. Search Strategies

GOAL 6

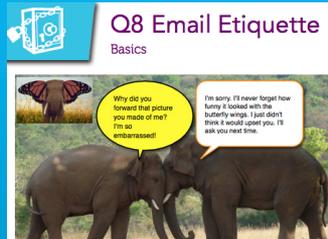
Help students learn to express themselves creatively using a variety of media tools chosen appropriate to the goal

17. Creative Communications

- Q1 Applications
- Q2 The Main Idea
- Q3 Creating Your Digital Artifact
- Q4 Remix
- Gold What is the Message?
- Gold Empower Student Voice With Flipgrid

Q3 Digital Self Portrait

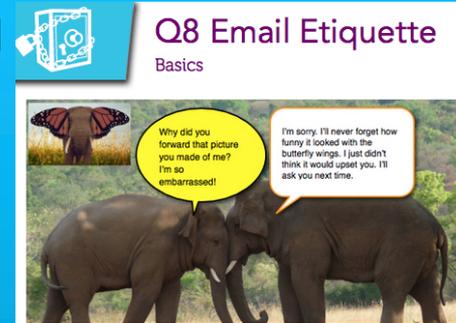
10. Digital Images



Q10 Sharing Your Presentation
11. Powerful Presentations

GOAL 7

Help students learn to make positive contributions as collaborators in local and global communities



I Can Statement

- collaborate online to create a presentation

Group work roles

Working and Creating a Presentation Together

20. Global Collaboration

Q1. What is a Global Collaborator?

Q2. Collaborating With Other Cultures

Q3. Speaking Out About Global Issues

Q4. Lessons Learned

Teaching Resources

Teacher Start Page

Teacher Start Page

Teacher Registration

Teacher Guides

Accommodations

Assessment

Competencies & Standards

Digital Citizenship

Feedback & Evaluation

Presentations and Lessons to Share

Teacher Resource Login

Updates

Standards Alignment Document

Assessment Bank

Complete URL listing

Goals of 21things4students



About Things, Quests, and Roadmap



Teacher Handbook, Lesson Guides, Listserv, and Syllabus



Student Checklists



Quizzes (Quizlet and ProProfs)



BADGES AND CERTIFICATES

Teachers have access to digital badges and award certificates to provide as students complete the 'things'



CREATE ...COLLABORATE...COMMUNICATE

Explore and
Enjoy

- ❖ CREATE your own digital portfolio of projects to showcase your work and skills (blog, web site, online collection...)
- ❖ COLLABORATE locally and globally
- ❖ COMMUNICATE with your parents/guardians, siblings, family members, friends, neighbors to help teach them what you learn

You are very important



- ✓ To help keep this current, fun, and up-to-date
- ✓ Email: When a link or content goes bad
- ✓ Complete the End of 'Thing' surveys with feedback and suggestions located on the "graduation pages"

SPECIAL THANKS TO

- Original 21things Project creation team: Melissa White and Carolyn McCarthy, and original partners: Jennifer Parker and Jan Harding.
- Intermediate School Districts for their support: Ingham ISD, Macomb ISD, Shiawassee RESD, and all of the Michigan Intermediate School Districts.
- REMC Association of Michigan for project funding and Sue Schwartz (Exec Director).
- RITS (REMC Instructional Technology Specialists) in Michigan
- 21t4students Advisory Team
- Teams of Revision teachers from across the state of Michigan helping keep the content current and fresh each year.
- Students who have provided feedback and suggestions.
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