

# #GoOpen

M I C H I G A N

The Michigan state seal is integrated into the letter 'N' of the word 'MICHIGAN'. It features a circular design with a central sunburst and radiating lines, set within a dark teal border.

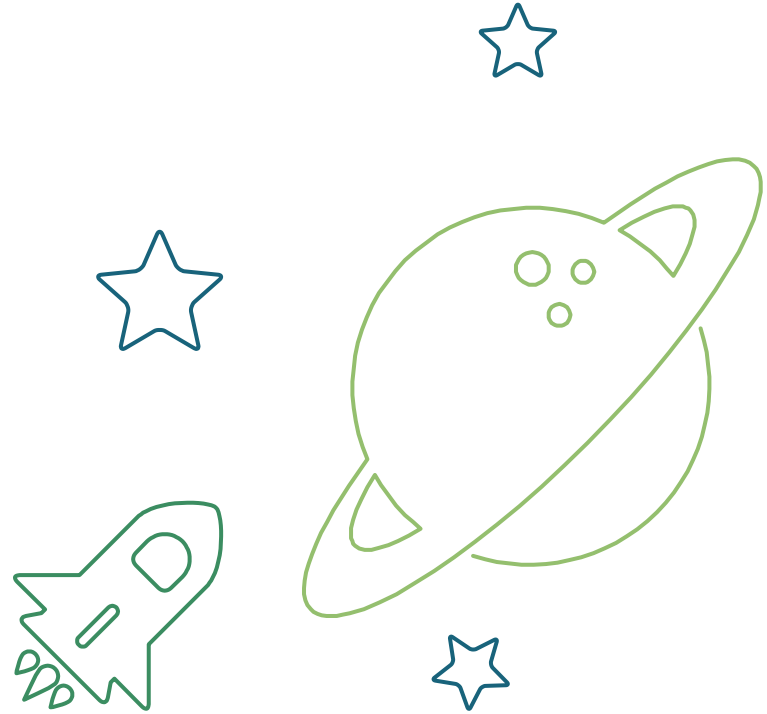
# Leveraging OERs to Level the Playing Field - Michigan #GoOpen

ESEA Conference  
2019

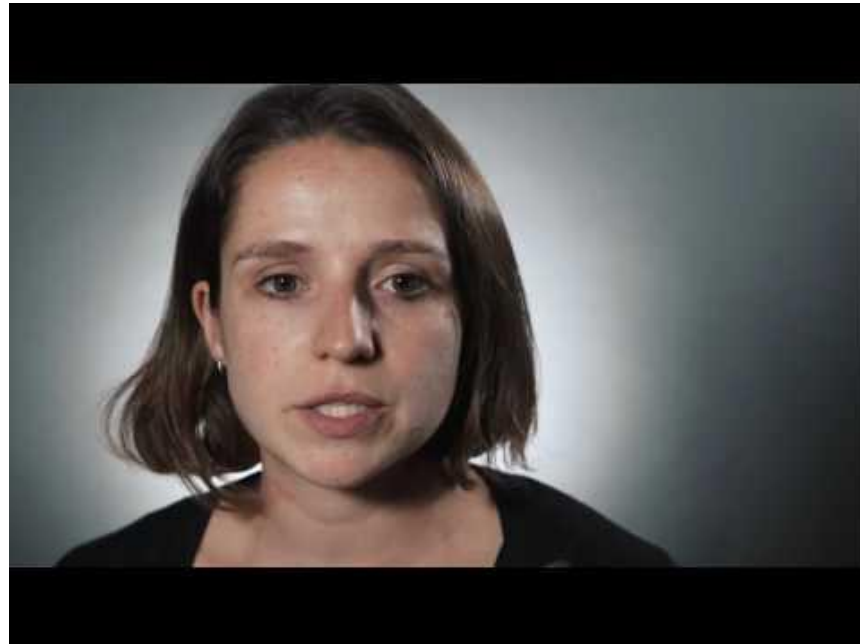
**OER (Open Education Resources) are  
openly licensed, freely available  
educational resources for teaching,  
learning, and research.**

# Natural Evolution

From paper, printed  
worksheets, and textbooks  
to digital - OER changes  
content delivery and  
capability



# What is OER?



# OER Are and Aren't

Type	Cost	License	Flexibility	Example
Openly Licensed Ed Resources	Free/minimal	Open license - Creative Commons	Yes; revise, remix, some restrictions may apply	MI Open Book Project
Free Digital Learning Resources	Free	Copyright restricted	Varies; limited without permission from creator	Smithsonian Education
Proprietary Textbook	Varied	Copyright restricted	No	Commercially published

Open Versus Free table by SETDA is licensed by CC-BY 3.0/Modified from original

# Ensuring Accessibility

- Retain
- Reuse
- Revise
- Remix
- Redistribute

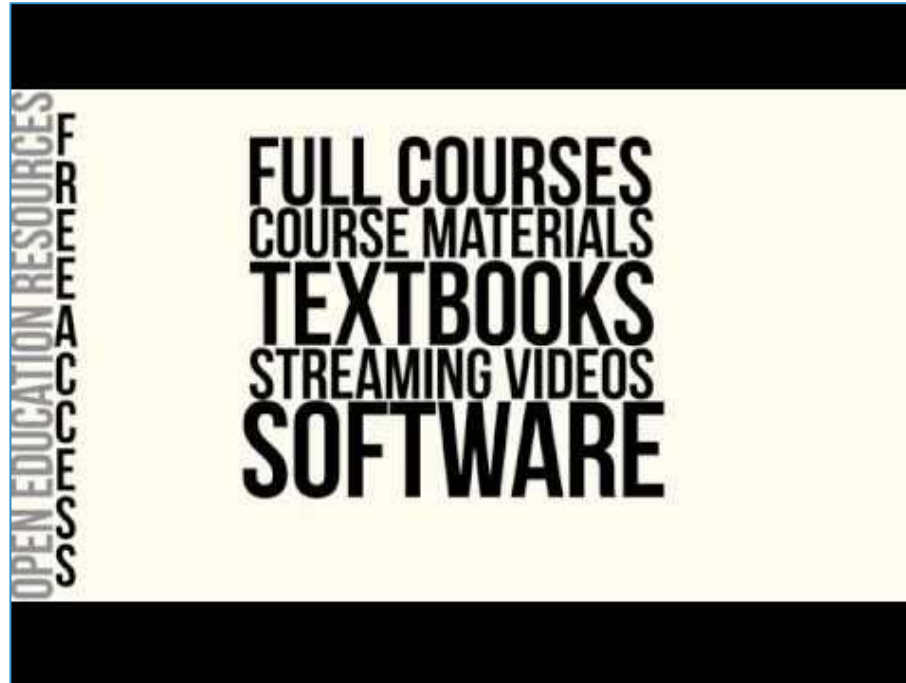
# What is an OER?

- What do you think?
- What in the video spoke to you?
- Why champion the use of OERs in your school/district?





# Why OER?



# Why OER?

- ❖ Personalize learning
  - Accommodations
    - Special Education
    - EL
  - Connections to life experiences
- ❖ Customize experiences
- ❖ Flexible, not static
- ❖ Streamline content delivery
- ❖ Free to use, minimal costs
- ❖ Student and educator engagement
  - Teachers have more freedom to design learning experiences
- ❖ Students can create OER while learning
- ❖ Provide equitable resources
- ❖ Savings can be diverted into teaching and learning

**“No matter where students live, they should have access to the same high-quality educational opportunities as any other student in Michigan. Likewise, teachers across the state should have equitable opportunities to learn and excel in their profession no matter where they live and teach.”**

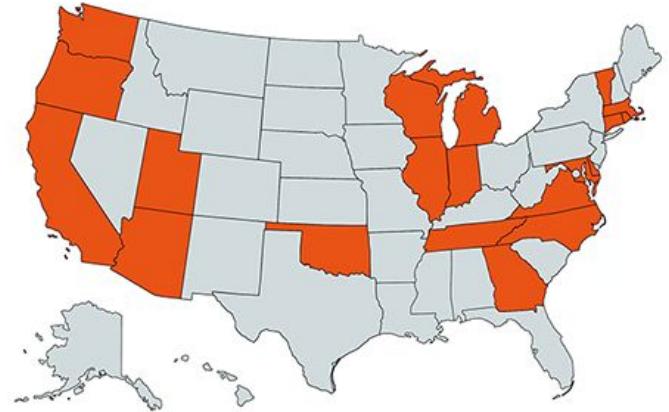
– *Michigan Top 10 in 10 Years Goals and Strategies*, 2016

# #GoOpen



*#GoOpen is a USDOE initiative calling on states and district to adopt and use OER*

#GoOpen States



# #GoOpen Michigan Strategy Team

#GoOpen  
MICHIGAN



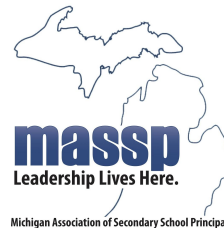
WAYLAND UNION SCHOOLS  
HOME OF THE WILDCATS



ADVANCED LEARNING  
PARTNERSHIPS



MICHIGAN  
OPEN BOOK PROJECT



Michigan Association of Secondary School Principals



## #GoOpen Michigan Strategy Team - Work to Date

- **Signed on to USED #GoOpen in 2016**
- [Michigan OER Microsite \(OER Commons\)](http://goopenmichigan.org) - goopenmichigan.org
- Curating content - ongoing
- Use of vetting rubrics (Achieve OER and Achieve EQuIP) to ensure **quality**
- Professional learning events, toolkit, and other resources to support teachers in using OER

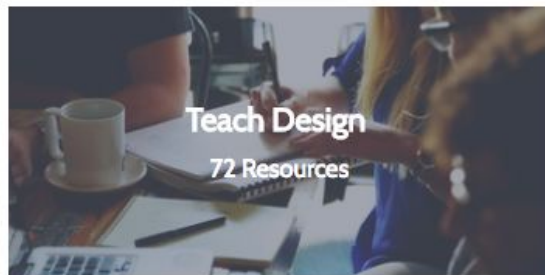
# #GoOpen Michigan Microsite OER Commons



Explore Open Content



## Our Featured Topics





# What are your needs?

- Are you looking to replace an entire textbook?
- Are you looking for specific supplemental materials?
- Are you looking to upgrade a unit?
- Have you identified specific gaps in curriculum?

# More Resources

The following slides contain helpful resources.

# OER Examples



[OER Courses](#)  
(High School)



[OER Courses](#)  
(High School)



[OER Activities](#)  
(K-3)



[OER Textbooks](#)  
(K-12)



[OER Courses](#)  
(High School)



[Open Textbooks](#)  
(K-12)



[OER Lessons](#)  
(K-12)



[OER Lessons](#)  
(6-8)

# GoOpen District Examples

*Wayland & Marysville*

# The Good

- Ownership from staff and students
- Student voice and choice (student conversation and engagement)
- Deeper focus on standards
- Teacher motivation
- Investment in teachers
- Teachers as designers of learning



Good, Bad, and Ugly  
Good, Bad and  
Unexpected

# The Bad

- “You get what you pay for” mentality
- Not a package (book, assessment, consumables, intervention/enrichment)
- Abundance of OER (overwhelming, vetting)

# The Unexpected

- Lack of Teacher Confidence
- Materials  $\neq$  Curriculum
- Huge time requirement
- Teacher empowerment

# District Policies

- Ownership
- Creative Commons Licensing
- Board Approval for Curriculum



# Ensuring Accessibility

Americans with Disabilities Act compliance when creating, sharing, etc. digital resources - all contents posted to district websites must be compliant

[Training](#) available for Michigan Educators!

# “Free” Like A Puppy

Reinvest!

- Professional Development
- Compensation for curation, modification, and creation!
- Technology for delivery

# Leveraging Funds!

- Title I
- Title II
- Title III
- Title IV

# Wayland OER

## Elementary

- Michigan Open Book Project
- MAISA Units
- Phenomenal Science

## Middle School

- GIANTS Social Studies
- PASST Assessment Items
- Michigan Open Book Project
- MI-STAR Units
- Open Up Resources - Illustrative Math
- Khan Academy

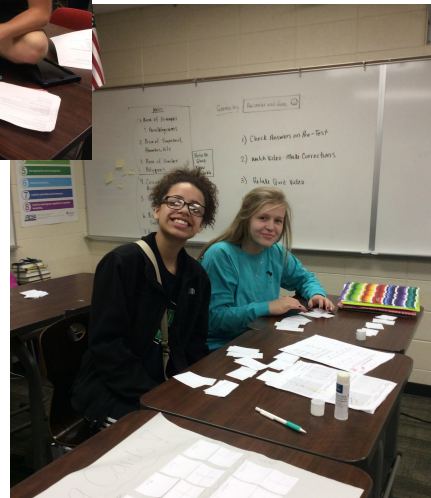
## High School

- Michigan Open Book Project
- Khan Academy
- Teacher created OER
- Creative Commons
- Unsplash
- Ck-12 textbooks

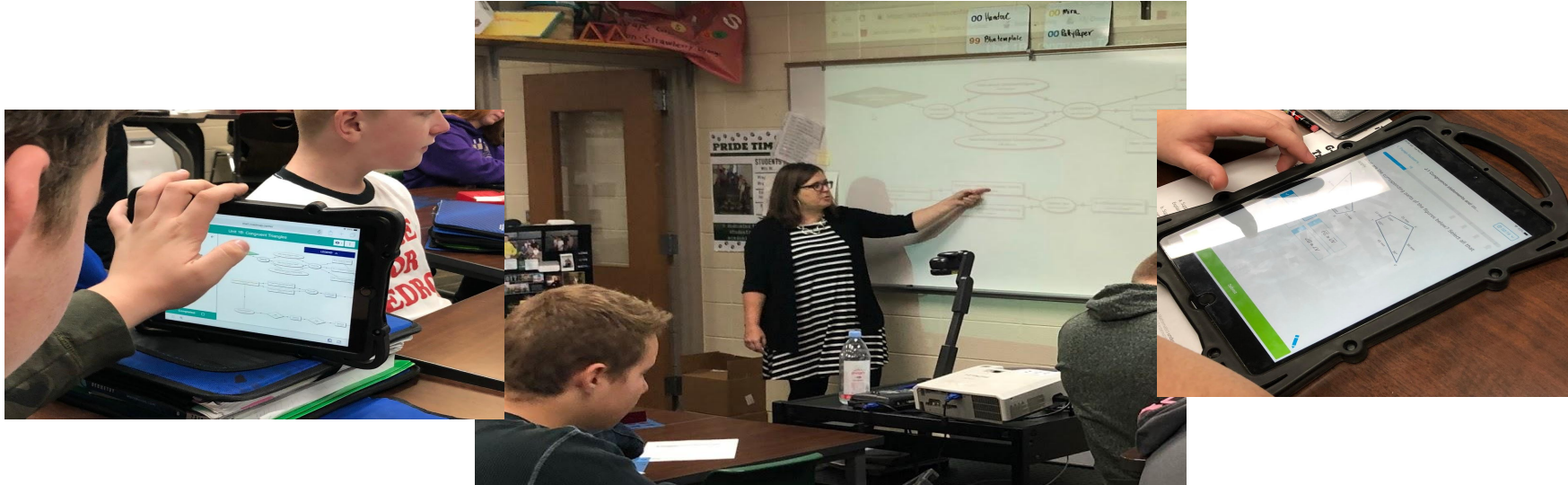
# Wayland OER

How can OER fit in?  
[HS Example Math Menu](#)

A classroom full of students  
accomplishing the same benchmarks,  
but working in different ways...ways  
they choose.



# Get Involved! OER Roadmaps!



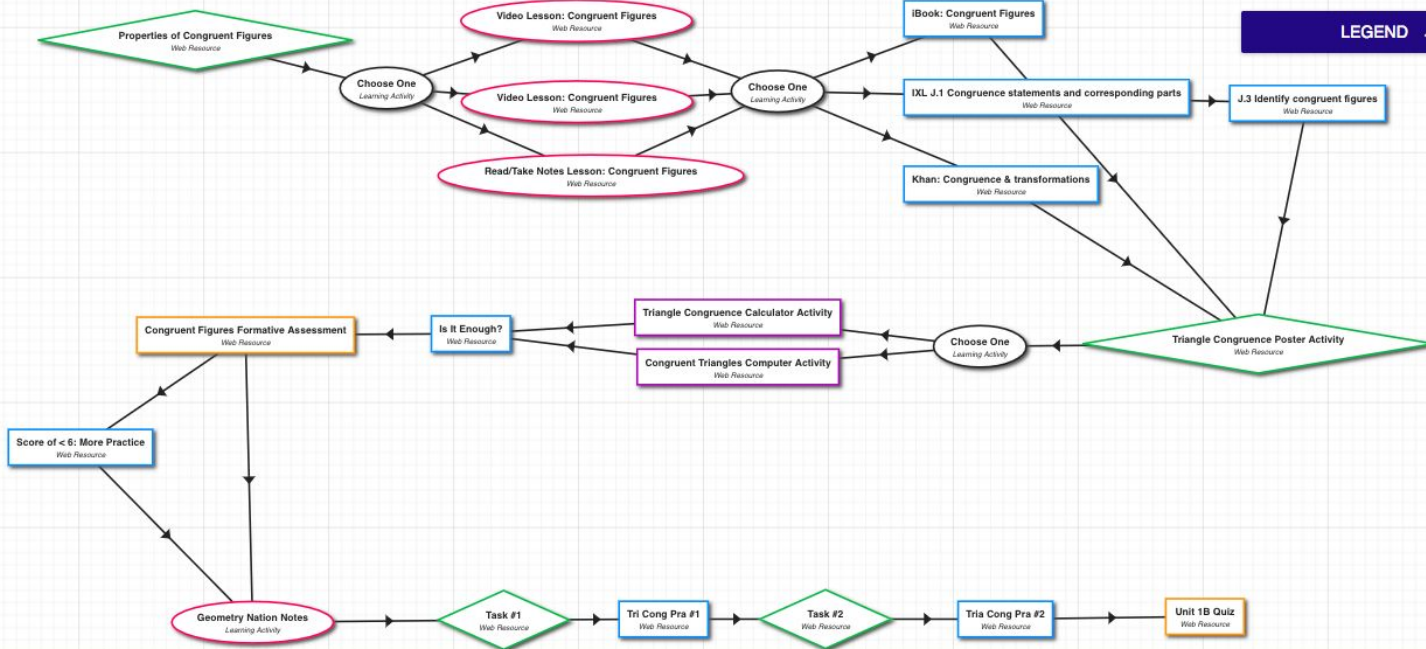
# Collablify

## ROADMAPLAUNCHER

## Unit 1B: Congruent Triangles

1

LEGEND ^





# Wayland OER

## The circle challenge

By Brady Clark, Erin Stora

How can Dutch find the center of the circle for his garden? We used the compass and makes arcs with the center of rotation on the pins of the triangle. Where they intersect is the center of the circle.

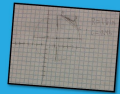


Construct the circle that would represent the stone fence

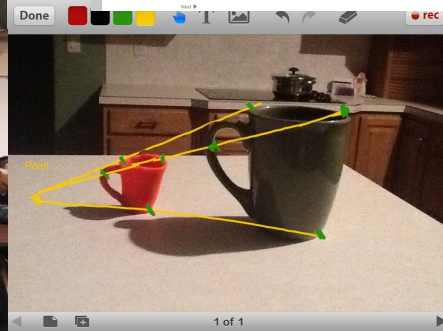
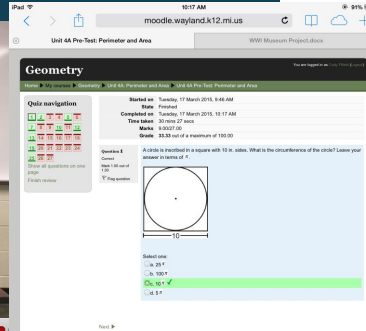


The radius of the circle is  $1 \frac{3}{10}$  in.

Dutch knows it will cost \$8 per meter to build this fence. How much should this cost? It costs \$67.60



We used the formula  $C = 3.14 \times d$



"I like being able to work ahead and choose what I can do."

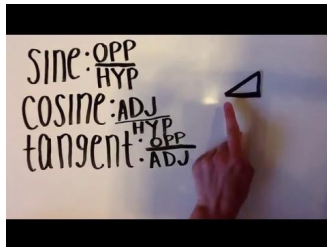
"I am just not there yet..."  
(vs. she didn't teach that yet)

"Can I come see you at lunch? I did not score very well on the quick check. I need some extra help and other resources to help me."



# Wayland OER

Students personalize their products to demonstrate learning and summarize key points of unit.



Students are thinking outside of the box!  
(Literally!)



Chapter 1

# Why Do People Live in Communities?

What is a community?

How are communities alike?

How are communities different?

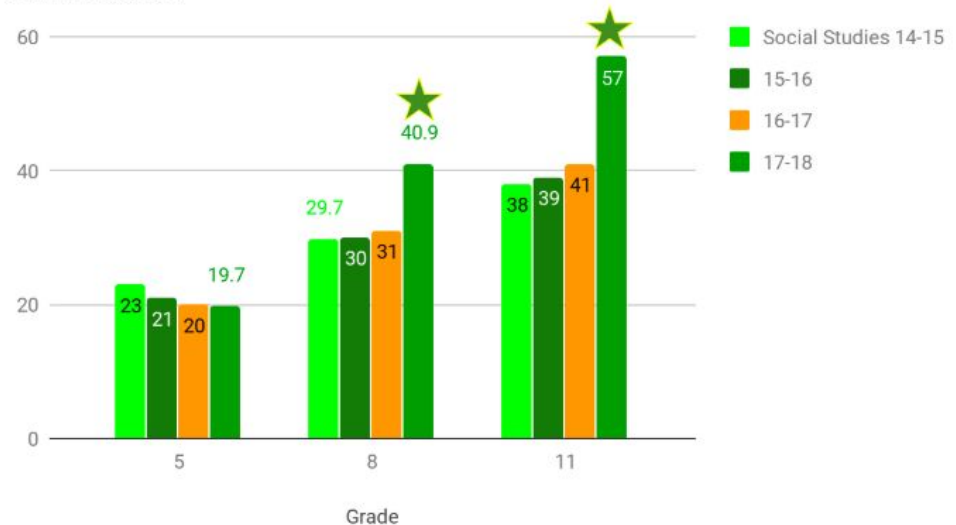


**MICHIGAN**  
**OPEN BOOK PROJECT**

# Data

- All subjects, all grade levels for M-STEP above state average.
- 11th Grade SS: 60.7% proficient, jumped from just below state average to 12.2% above state average in spring 2018

Social Studies

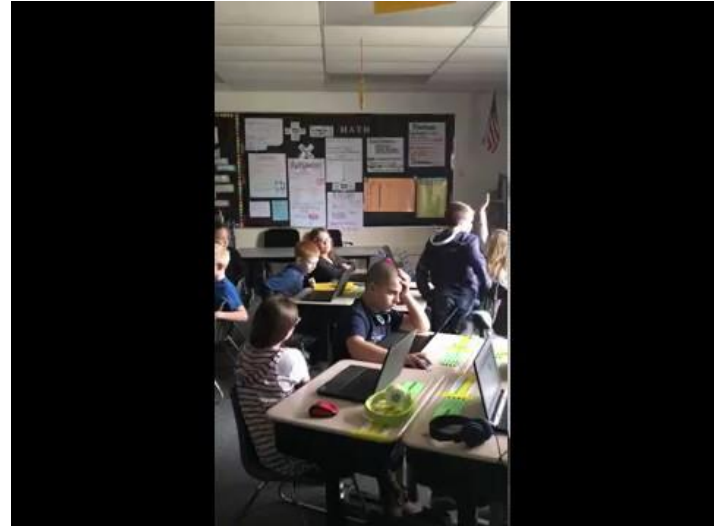


# Marysville OER

WE ARE CREATING....

- Learning opportunities that didn't exist before!

Question: What makes the digital textbook different than a regular textbook?



# Marysville OER

**Revolutionary War**  
by amakim

onary 1

ts fight

neal

ylie

T

2

Schoolhouse Rock!: Americ...  
The Battles of Lexington and C...

▶

The Battle of Bunker Hill-

3

4

5

**The Rampageous Revolutionary War!**  
by gbasic

1

The Rampageous  
Revolutionary War!"The  
British are coming! The  
British are coming!  
Stand your ground!"

By: Gabby B. and Addie T. 5...

T

2

Battle of Lexington and Co...  
Battle of Lexington, April, 177...

📷

3

Battle of Bunker Hill  
The Battle of Bunker Hill, June...

📷

4

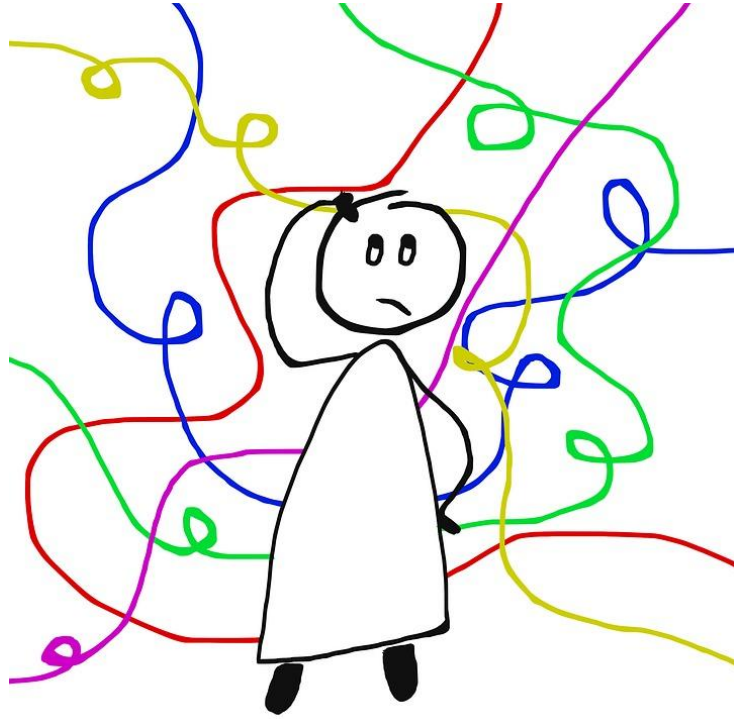
5

6

## Revolutionary War

## Get Involved!

- USED:  
<https://tech.ed.gov/open/>
- Michigan: Contact Us!



# Questions

# Presenter Information

Teresa Fulk  
Director of Instruction  
Wayland Union Schools  
[fulkt@waylandunion.org](mailto:fulkt@waylandunion.org)

Cheryl Wilson  
Technology Teacher Consultant  
Wayland Union Schools  
[wilsonc@waylandunion.org](mailto:wilsonc@waylandunion.org)