

Utah's Secondary Mathematics Professional Learning Opportunities

Please explore the professional learning opportunities by clicking on the headers below.

If accommodations are needed for you to participate, please email lindsey.henderson@schools.utah.gov as soon as possible.

USBE Virtual, Synchronous Professional Learning Opportunities

- ~~[Middle School Formative Assessments](#)~~ - CONCLUDED

USBE Mathematics Book Studies

- ~~[Limitless Mind Video Book Study](#)~~ - ALL COPIES DISTRIBUTED
- [Building Thinking Classrooms Book Study](#)
- [Teaching Mathematics to Multilingual Students Book Study](#)
- [Mindset Mathematics Grade 7 or Grade 8](#)
- [Math-is](#) - RELEASED ON MAY 7th (set a reminder)

Stanford University Professional Learning Series

- ~~[21st Century Teaching and Learning \(Data Literacy/Science\)](#)~~ - ALL SPOTS TAKEN
- [How To Learn Math For Teachers](#) - ALL SPOTS TAKEN
- [Mathematical Mindsets](#) - ALL SPOTS TAKEN

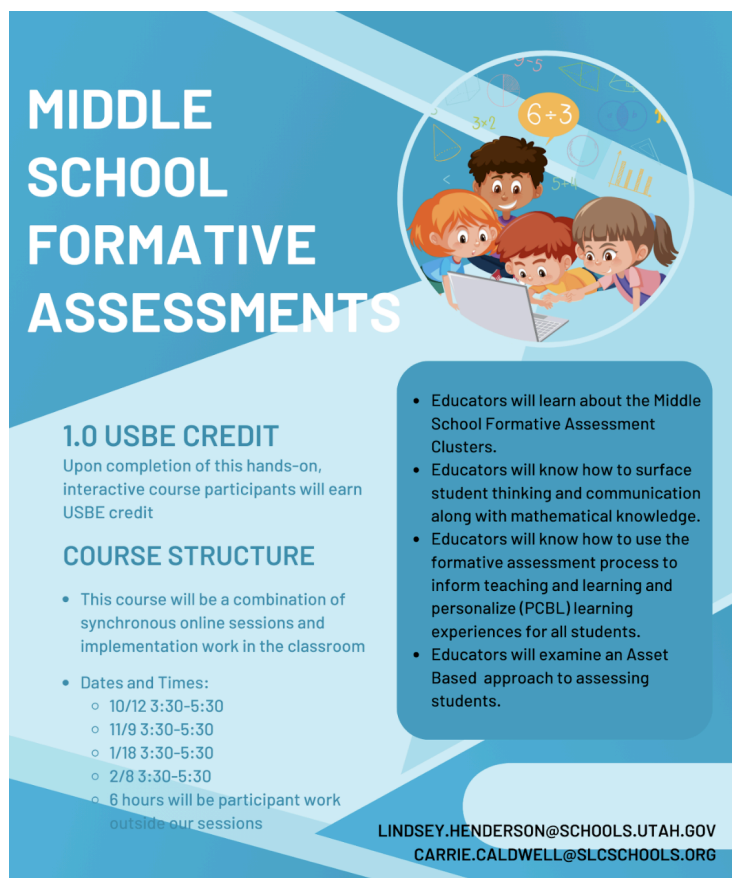
Grassroots Mini Professional Learning Opportunities

- ~~[Pick as few or as many classes that you'd like to take and let USBE pay the tuition!](#)~~ - ALL SPOTS TAKEN

Grassroots Full Length Professional Learning Opportunities

- ~~[Up For Debate](#)~~ by Chris Luzniak - ALL SPOTS TAKEN
- ~~[Empowered Problem Solving](#)~~ by Robert Kaplinsky - ALL SPOTS TAKEN

Middle School Formative Assessments



MIDDLE SCHOOL FORMATIVE ASSESSMENTS

1.0 USBE CREDIT
Upon completion of this hands-on, interactive course participants will earn USBE credit

COURSE STRUCTURE

- This course will be a combination of synchronous online sessions and implementation work in the classroom
- Dates and Times:
 - 10/12 3:30-5:30
 - 11/9 3:30-5:30
 - 1/18 3:30-5:30
 - 2/8 3:30-5:30
 - 6 hours will be participant work outside our sessions

EDUCATORS WILL LEARN:

- Educators will learn about the Middle School Formative Assessment Clusters.
- Educators will know how to surface student thinking and communication along with mathematical knowledge.
- Educators will know how to use the formative assessment process to inform teaching and learning and personalize (PCBL) learning experiences for all students.
- Educators will examine an Asset Based approach to assessing students.

LINDSEY.HENDERSON@SCHOOLS.UTAH.GOV
CARRIE.CALDWELL@SLCSCHOOLS.ORG

Are you a Middle School Mathematics Educator or Leader (6th - 8th Grade) who is interested in learning how to implement the Middle School Formative Assessment Clusters to further [Personalized Competency Based Learning with students](#)? Consider joining this professional learning opportunity, sponsored by the Utah State Board of Education and facilitated by Carrie Caldwell (mathematics teacher at Hillside Middle School and [2016 Utah PAEMST awardee](#)).

Registration and more information: <https://forms.gle/QAH61JZbC4BA4X4e9>

Background on the Middle School Formative Assessment Clusters

As you may recall, this summer we had an amazing team of Utah middle school mathematics educators representing:

Canyons District

Weber District
University of Utah
Jordan District
Ogden Preparatory Academy
Davis School District
Granite School District
Salt Lake City School District
Utah Valley University
Tooele School District
Early Light Academy
Nebo School District
Cache County School District
The Mana Academy

Who came together to create the Middle School Formative Assessment Clusters!

The Formative Assessment Clusters are now housed in the [UEN Mathematics eMedia Hub](#)

(<https://emedia.uen.org/hubs/math>) about 2/3 down the page under the header 6-8 Major Work of the Grade Formative Assessment Clusters. Direct links to the menu's here:

6th Grade:

<https://docs.google.com/document/d/1SsNRXsR9z08t3rrPLm6zpvtRGfL8QCi9EGOMc34dzt8/edit?usp=sharing>

7th Grade:

https://docs.google.com/document/d/1ODCOfojwDd_BPAoIpabVMYUE7t-6mOoQj6YYZB9UVc/edit?usp=sharing

8th Grade:

https://docs.google.com/document/d/1p2LJrAJNA6amIZ_N1pKdG_1HKoLuLhb5JXWSIfPk074/edit?usp=sharing

The Formative Assessment Clusters are like no assessment you have ever seen before and are meant as a tool to help middle school educators surface a student's funds of mathematical knowledge and a student's way of mathematically thinking! Each cluster starts with a context, provides a task statement along with necessary supporting information, and a sequenced list of questions as a way to scaffold student sense-making. The cluster provides an opportunity for students to demonstrate their mathematical *knowledge*, their ability to *apply* their knowledge, and their ability to *communicate* their understanding of the targeted mathematical standard. Students should be allowed agency to use whatever technology and/or physical or virtual manipulatives or tools in order to facilitate student thinking (unless otherwise indicated).

Questions: Lindsey.Henderson@schools.utah.gov

Sharable Flyer:

<https://drive.google.com/file/d/1VZcQJDFAP8hdONcvVGhtOkSmGmfI9ciW/view?usp=sharing>

USBE Mathematics Book Studies

[Limitless Mind Video Book Study Registration](#)

Preview the Video Book with this trailer: <https://litvideobooks.com/limitless-mind>

Each course is designed to be:

- Self-Paced
- Asynchronous
- Collaborative
- ~10-14 hours of coursework: read a chapter and offer a community reflection via Flipgrid followed by a private written reflection on the impact to your craft. The final project is to submit an artifact that you have been inspired to create/make/re-work based on several USBE resources and the information you learned in the book.
- 1.0 USBE
- Credit Hours upon successful completion
- If accommodations are needed, please email Lindsey.Henderson@schools.Utah.gov
- Questions: lindsey.henderson@schools.utah.gov

Building Thinking Classrooms Book Study

Registration form: <https://forms.gle/uy22mq9voL3PekNH9>

Canvas Course: <https://usbe.instructure.com/enroll/WTJGHF>

Access to the digital book checkout:

<https://docs.google.com/document/d/1SgBvTFdeTaM9ah6zZsRidHZajmvvjNOKYf9XNK8gKF8/edit?usp=sharing>

Teaching Math to Multilingual Students Book Study

Registration form: <https://forms.gle/1qsa7UyQwhdDMxbPA>

Canvas Course: <https://usbe.instructure.com/enroll/7CXYRA>

Access to the digital book checkout:

<https://docs.google.com/document/d/1oENAA5TgtLLc21Y7lRejFm18S2TCjeNwHXrZJCq1Fog/edit?usp=sharing>

Mindset Mathematics Grade 7 or Grade 8

Registration form: <https://forms.gle/j2ibVhsVA8Ooaoa7>

Math-ish

Registration: <https://forms.gle/5MwsLUJm9azpRZ5c6>

Grassroots Mini Professional Learning Opportunities (Coming Soon)

All courses are collaboratively asynchronous and complete at your own pace. Each course takes approximately 7 hours of seat time to complete. Tuition is covered if you register [here](#). Each completed course is worth 0.5 USBE Credit Hours upon completion. If accommodations are needed, please email Lindsey.Henderson@schools.Utah.gov:



The graphic features a light green background with a faint pattern of grass leaves. At the top center is the 'GRASSROOTS WORKSHOPS' logo, which includes a stylized green plant icon. Below the logo are two white boxes with green borders. The left box contains the text 'CHOOSE A MINI WORKSHOP AND LEARN FROM ONE OF THESE PRESENTERS:'. The right box contains the Utah State Board of Education logo and the text 'LET US PAY THE TUITION'. In the center of the graphic is a grid of 24 small portrait photos of diverse individuals. At the bottom, there is a white box with a green border containing a QR code on the left and the text 'ENGAGE ASYNCHRONOUSLY', 'LEARN NEW SKILLS', 'MAKE MATH FUN', and 'REGISTER HERE' on the right.

Grassroots Professional Learning Opportunities

All courses are collaboratively asynchronous and complete at your own pace. Each course takes approximately 18-22 hours of seat time to complete. Tuition is covered if you register [here](#). Each completed course is worth 1.5 USBE Credit Hours upon completion. If accommodations are needed, please email Lindsey.Henderson@schools.Utah.gov or eva.coleymells@schools.utah.gov ASAP. Click on the link below for more information about each of the courses:

- [Up For Debate](#) by Chris Luzniak
- [Empowered Problem Solving](#) by Robert Kaplinsky

GRASSROOTS WORKSHOPS 1.5 USBE Credit

SECONDARY MATHEMATICS

REGISTER: <https://forms.gle/4xm8u9cqPpVB55yE7>

MIDAS # 60501

Up For Debate
by Chris Luzniak

Topics Covered:

- Student Discourse
- Debatable Questions
- Debate in Math Class
- Debate Activities
- Talking Routines
- Listening Routines
- Real-Life Connections
- Empowerment

Empowered Problem Solving
by Robert Kaplinsky

Topics Covered:

- Problem-Based Learning
- Open Middle
- Depth of Knowledge
- 3-Act Tasks

Have Questions?
Contact: Lindsey.Henderson@schools.utah.gov

Stanford University Professional Learning Series

All courses are collaboratively asynchronous and complete at your own pace. Tuition is covered if you register [here](#). Each completed course is worth 2.0 USBE Credit Hours upon completion. If accommodations are needed, please email Lindsey.Henderson@schools.Utah.gov. Click on the link below for more information about each of the courses:

- [21st Century Teaching and Learning \(Data Science\)](#)
- [Mathematical Mindsets](#)
- [How to Learn Math for Teachers](#)

THE UTAH STATE BOARD OF EDUCATION PRESENTS:

Stanford PL Opportunities

How to Learn Math For Teachers
Come and explore the research on math learning and student mindsets that will transform students' experiences with math.

21st Century Teaching and Learning: Data Science
Come and learn how to teach content in a data-science way (fun, interesting, and creative).

Mathematical Mindsets
Come and learn how to inspire math achievement and help your students develop a growth mindset!

Tuition is covered as long as you [register early!](#)
?'s: Lindsey.Henderson@schools.utah.gov