

## Purpose of SSECC

Build the capacity of LEAs through a statewide professional learning community to support high quality science and engineering education that is accessible to all students.

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# Secondary SSECC Meeting Notes

Sept 13th, 2024, 1:30 pm-3:30 pm  
In-Person & Zoom

Meeting Notes: <https://bit.ly/secSSECC-N-9-24->

Google Slides: <https://bit.ly/secSSECC-S-9-24>

Sign-In: <https://forms.gle/fz3BHdV2h6h1kq417>

**Zoom Link:** <https://schools-utah-gov.zoom.us/j/89391561573?pwd=sUb1PNLLl1LLqyNP3lU3bCgCeG6qoR.1&from=addon>

**Meeting ID:** 893 9156 1573

**Passcode:** 08615898

**Meeting Recording:** 📺 Secondary SSECC Sept 2024.mp4

## Agenda

1:30 pm - 3:30 pm

Time	Topic
1:30	Welcome/Sign-In
1:35	Ice Breaker
1:45	USBE Items <ul style="list-style-type: none"><li>• 2023-2024 USB Science Projects Report</li><li>• 2024-2025 USB Science Projects</li><li>• PAEMST Nominations</li><li>• UtSTA Conference</li><li>• SEEd Standards Revisions</li><li>• Formative Assessment for Canvas</li><li>• Printing Services for OER Textbook</li><li>• School Fees</li><li>• Science Assessment Updates</li></ul>
2:30	Supporting MLL Students in Science with Christelle Estrada
3:25	Closing

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The purpose of this document is to give a space for participants of Secondary SSECC to share their meeting insights, ideas, and conversations. It is a collaborative space to ask questions and write answers. Every agenda item starts on separate pages but may grow to multiple pages during the meeting. These notes will be published publicly following the meeting. **These notes will only be as strong as you make them, please use them during the meeting to share what's happening.**

### **USBE Science ListServ Subscriptions:**

- Subscribe to the Secondary Science Teacher Listserv at <https://lists.uen.org/mailman/listinfo/science-sec>
  - Subscribe to the Secondary SSECC Listserv at <https://lists.uen.org/mailman/listinfo/ssecc-sec>
  - Subscribe to the Science Assessment Listserv at <https://lists.uen.org/mailman/listinfo/utahscienceclusterdevelopment>
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## Welcome

SSECC = State Science Education Coordinating Committee

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### **Elementary/Secondary VS Combined SSECC**

#### Elementary/Secondary

- General Information
- PD to support leaders

#### Combined (K-12)

- Team Building & Networking
- Resources to support K-12

### **Future SSECC Meetings**

- Winter - January 31st, 2025 (Online)
  - Secondary: 8:30-10:30
  - Combined: 10:45-12:45
  - Elementary: 1:30-3:30
- Spring - May 9th, 2025 (Online)
  - Elementary: 8:30-10:30
  - Combined: 10:45-12:45
  - Secondary: 1:30-3:30

### **Secondary SSECC Advisory Team**

- Amy Pace, USBE - Charter Schools
- Cory Jensen, Davis SD
- Suzette Boland, Granite SD
- Josh Stowers, BYU
- Lisa Jones, SLCS

### **State Science Leadership Contacts**

- Update information found [State Science Leadership](#) document

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# USBE Items

## 2023-2024 USBE Science Projects Report

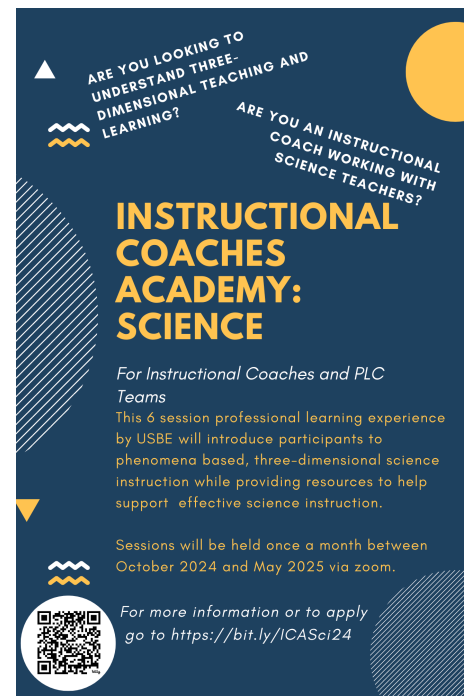
- 3D Science Instructional Institute
  - 41 participants completed the course
- Formative Assessment Revisions
  - All secondary science Formative Assessments were reviewed and needed revisions were completed and published in the core guides
- OER Textbook Performance Task Writing
  - 113 (52%) science writing tasks were written for the chapters/standards in the OER textbooks
  - Working with Science Assessment to secure funding to finish the remaining 103 writing tasks

## 2024-2025 USBE Science Projects

- Development of Science Coaching Endorsement and Microcredentials
- Instructional Coaching Academy: Science
- PBL Works Project
- Utah Water Ways Project

## Instructional Coaching Academy: Science

- Professional Learning Experience for Instructional Coaches and PLC Teams about phenomena based, three-dimensional teaching.
- [Sign up here](#)



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## USBE Items

### PBL Works Project

#### Project Description

- Facilitate the development of both project-based Learning Tasks and performance assessments aligned to Utah's science and social studies preschool to grade 12 standards and the associated knowledge, skills, and dispositions.

#### Project Product/Purpose

- Support the development of a resource bank, seeded with high-quality performance assessments
- Provide professional learning that supports educators in developing **project-based learning experiences** and **performance based assessments** aligned to the standards, skills, and disposition competencies

#### Engagement Opportunities

- Steering Committee
- Content Advisors
- Community Advisors
- Educator Writers
- Pilot Educators (25/26)

#### Steering Committee

Who	What	How
5-7 leaders •State leaders •District leaders  •We are seeking 4 LEA leaders (AD, CD, PCBL)	Provide oversight for the project and help ensure that materials, resources, and processes can best support students and educators in meeting the ambitious competencies as defined by the USBE.	Commit to engage in the following: •2-day Visioning Workshop •Quarterly 90-minute Implementation Calls (8) •1-day Steering Committee Meeting •1-day Presentation of Learning

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#### Content Advisors

Who	What	How
12-16 leaders: •Subject areas: elementary and secondary experts for Science and Social Studies <i>3-4 leaders/subject/grade span</i> <i>Note: ELA and mathematics experts welcome</i> <b>We are seeking 6 LEA leaders</b>	Support the development of projects by selecting Utah standards that align with PBLWorks projects, gathering appropriate curriculum resources, reviewing suggestions by community advisors, and providing foundational elements of PK-12 units.	Commit to engage in the following: •2-day Visioning Workshop •One 90-minute subject and grade span-specific meeting •1-Day Content Advisory Meeting • <i>Asynchronous time: ~2 to 3 hours a week Sept to Dec</i> •Virtual 15-30 min check ins •1-Day Steering Committee Meeting

#### Community Advisors

Who	What	How
Up to 10 - 15 community leaders representing various areas of the state: •District leaders •Parents <b>We are seeking 13 LEA leaders (AD, CD, Specialist, PCBL)</b>	Provide inputs and suggestions about topics of interest, share opportunities for authentic audiences and community connections, and advocate the project units.	Commit to engage in the following: •2-day Visioning Workshop •90-min Focus Group Meetings (4)

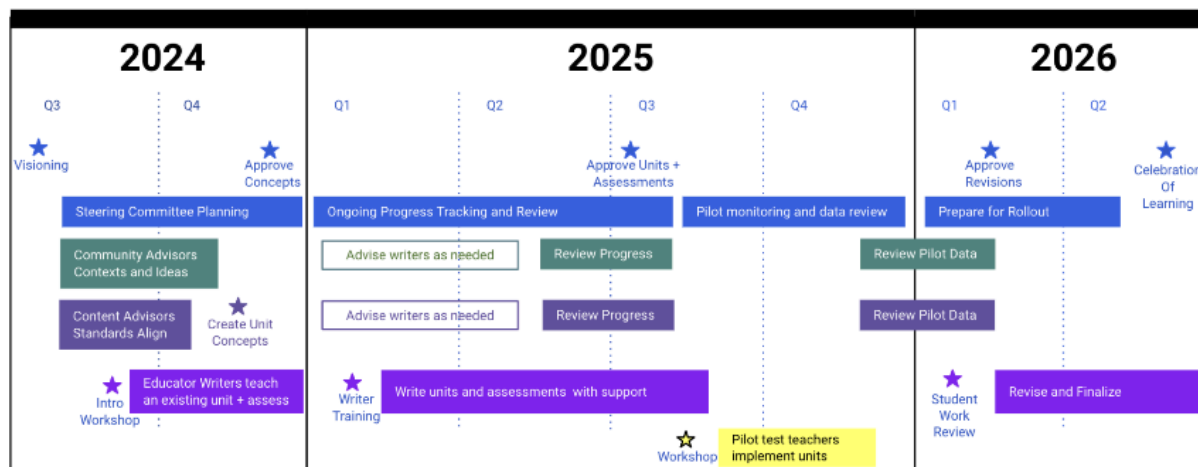
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### Educator Writers

Who	Role	Expectations
<p>No more than <b>42 science</b> and <b>42 social studies</b> writers selected by the USBE:</p> <ul style="list-style-type: none"> <li>•Teacher leaders</li> <li>•Department leads</li> <li>•Curriculum leaders or other similar roles</li> </ul> <p>With the following attributes::</p> <ul style="list-style-type: none"> <li>•Represent the diversity of educators, students and communities across the state</li> <li>•Have experience in Project Based Learning and/or Performance assessment</li> </ul> <p><i>2-3 teachers/subject/grade level</i></p>	<p>Adapt PBLWorks projects by participating in professional learning, writing at least one Utah-specific project for your assigned area, revise the project based on feedback from various stakeholders and PBLWorks, celebrate the project creation and support teachers who pilot the curriculum.</p>	<p>Commit to engage in the following:</p> <ul style="list-style-type: none"> <li>•3-day in-person PBL 101 Workshop</li> <li>•Implement the project</li> <li>•Collect sample student work from the project.</li> <li>•4-day writer training</li> <li>•<i>Asynchronous time: about 8 to 10 hours a week to develop and refine a project-based unit</i></li> <li>•Two 90-min check in</li> <li>•1-day student work review meeting</li> <li>•<i>Asynchronous time: about 8 to 10 hours a week to revise the project-based unit</i></li> <li>•1-day Celebration of Learning</li> </ul>

### Project Timeline



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### How to Participate

- Email Michelle or Milo to participate on the Steering Committee, Content Advisors, or Community Advisors.
- [Apply to be a writer](#)



The Utah State Board of Education is seeking science and social studies classroom teachers, instructional coaches, teachers on special assignment, department leads, curriculum leaders and other similar roles. This group will participate in the capacity building professional learning focused on developing project-based learning experiences and performance assessments. Two to three educators per subject per grade will be selected as educator writers. Teachers will be selected to represent the diversity of educators, students, and communities across the state, and should have experience in project based learning and performance assessment. Participants will be compensated according to the Utah State Board of Education's Participant Support Cost policy.

**WHO**

We are looking for 42 science and 42 social studies educators with the following attributes:

- \*Represent the diversity of educators, students and communities across the state
- \*Have experience in Project Based Learning and/or Performance assessment
- \*2-3 teachers/subject/grade level

**EXPECTATIONS**

- \*2-day in-person PBL 101 Workshop
- \*Implement the project
- \*4-day writer training (June 2025)
- \*Two 90-min check in
- \*1-day student work review meeting
- \*1-day Celebration of Learning

**Apply here:**



For more details:  
(801)538-7811

250 E. 500 S.  
Salt Lake City, UT 84114

VISIT US:  
[www.schools.utah.gov](http://www.schools.utah.gov)

### Utah Water Ways Project

- USBE is partnering with Utah Water Ways to create science curriculum aligned to the SEEd Standards which promote stewardship of Utah's waterways.
- Currently in planning stages.
  - Curriculum to be written in June
  - Call for participants to occur after in Jan 2025

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## USBE Items

### PAEMST


#### What is PAEMST?

**PAEMST** | The Presidential Awards for Excellence in Mathematics and Science Teaching

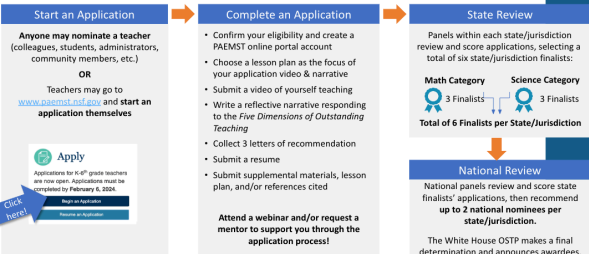
- A White House Office of Science and Technology Policy (OSTP) award program administered by the the National Science Foundation (NSF)
- Awards are given to science, technology, engineering, and/or mathematics (STEM) teachers from each of the U.S. states and jurisdictions
- PAEMST is the highest recognition a K-12 educator may receive for outstanding STEM teaching from the United States Government
- The award recognizes teachers with deep content knowledge of the subjects they teach and the ability to motivate and enable students to be successful in those areas

#### PAEMST HISTORY

- Enacted by Congress in 1983, this program authorizes the President to total of 110 awards each year
- Over 5,200 teachers have received the honor of a Presidential Award since it's inception
- Many awardees have pursued leadership opportunities in their districts, states, and at the national level



#### What is the application process?



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graph LR; A[Start an Application] --> B[Complete an Application]; B --> C[State Review]; C --> D[National Review]; D --> E[Announcement & Recognition];
```

**Start an Application**

- Anyone may nominate a teacher (colleagues, students, administrators, community members, etc.)
- OR
- Teachers may go to <https://paemst.nsf.gov> and start an application themselves

**Complete an Application**

- Confirm your eligibility and create a PAEMST online portal account
- Choose a lesson plan as the focus of your application video & narrative
- Submit a video of yourself teaching
- Write a reflective narrative responding to the *Five Dimensions of Outstanding Teaching*
- Collect 3 letters of recommendation
- Submit a resume
- Submit supplemental materials, lesson plan, and/or references cited

**State Review**

Panels within each state/jurisdiction review and score applications, selecting a total of six state/jurisdiction finalists:

- Math Category: 3 Finalists
- Science Category: 3 Finalists
- Total of 6 Finalists per State/Jurisdiction


**National Review**

National panels review and score state finalists' applications, then recommend up to 2 national nominees per state/jurisdiction.

The White House OSTP makes a final determination and announces awardees.

#### What do awardees receive?

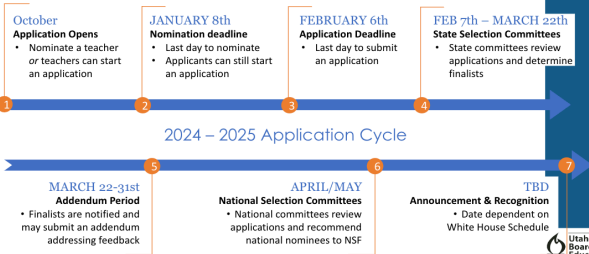
- A \$10,000 award from NSF (used at the awardee's discretion)
- A certificate signed by the President of the United States
- A paid trip to Washington, DC for a recognition event, which may include:
  - an award ceremony;
  - professional development activities; and
  - discussions with policymakers on how to improve STEM education
- Awardees also join a cohort of over 5,200 award-winning teachers



*"This award encourages me to continue guiding my students to explore their curiosities, use innovative thinking, and collaborate on both a national and global level to resolve global STEM issues."*

**Tiffany Pace**  
2020 Science Awardee  
(West Virginia)

#### What is the application timeline?



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graph LR; 1[October Application Opens] --> 2[JANUARY 8th Nomination deadline]; 2 --> 3[FEBRUARY 6th Application Deadline]; 3 --> 4[FEB 7th - MARCH 22th State Selection Committees]; 4 --> 5[MARCH 22-31st Addendum Period]; 5 --> 6[APRIL/MAY National Selection Committees]; 6 --> 7[TBD Announcement & Recognition];
```

**October Application Opens**

- Nominate a teacher or teachers can start an application

**JANUARY 8th Nomination deadline**

- Last day to nominate
- Applicants can still start an application

**FEBRUARY 6th Application Deadline**

- Last day to submit an application

**FEB 7th - MARCH 22th State Selection Committees**

- State committees review applications and determine finalists

**MARCH 22-31st Addendum Period**

- Finalists are notified and may submit an addendum addressing feedback

**APRIL/MAY National Selection Committees**

- National committees review applications and recommend national nominees to NSF

**TBD Announcement & Recognition**

- Date dependent on White House Schedule


#### Who is eligible for the award?

To be eligible for the award, applicants must:

- Teach science, technology, engineering, or mathematics, to students in a public (including charter) or private school

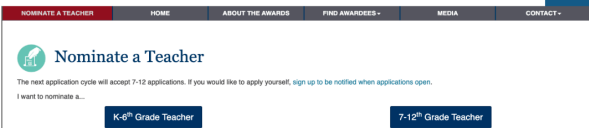
2024-2025	2025-2026
7-12 <sup>th</sup> grade teachers eligible	K-6 <sup>th</sup> grade teachers eligible

- Be a full-time employee of their school/school district with responsibilities for teaching students at least 50% of the school's allotted instruction time
- Have at least 5 years of full-time employment as a K-12 teacher prior to the 2025-2026 school year (with STEM teaching duties each of the past 5 years)
- Teach in the United States, U.S. Jurisdictions, or a Dept. of Defense Education Activity School
- Hold at least a bachelor's degree from an accredited institution
- Be a U.S. citizen or permanent resident
- Not have received a PAEMST award at the national level in any prior year



#### Who Do You Know That You Can Nominate?

- Go to <https://paemst.nsf.gov/nomination> to nominate an excellent teacher.




**Nominate a Teacher**

The next application cycle will accept 7-12 applications. If you would like to apply yourself, sign up to be notified when applications open.

I want to nominate a...

- Who are your points of contact at USBE?

Milo Maughan <a href="mailto:Milo.Maughan@schools.Utah.gov">Milo.Maughan@schools.Utah.gov</a> Secondary Science Education Specialist	Mike Spencer <a href="mailto:mike.spencer@schools.Utah.gov">mike.spencer@schools.Utah.gov</a> Secondary Mathematics Education Specialist
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- Go to <https://paemst.nsf.gov/nomination> to nominate an excellent teacher today!

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## USBE Items

### UtSTA Conference

- 11 Oct 2024 @ Davis Conference Center
- Register at [UtSTA.org](https://utsta.org)

### UtSTA 2024 Awardees

- Amber Green - Monticello Academy
- Kristen Bonner - SLCSO
- Jared Broadbent - Nebo SD
- Fawn Gardner - Wasatch SD
- Jentri Nay - S Sanpete
- Miranda Schear - Washington SD
- Jennifer Stout - Beehive Academy
- Maria Jones - Cache SD
- Mike Summer - Tooele SD
- Teresa Hislop - Ogden Prep
- Alesha Schulzke - Jordan SD
- Erin Capra - SLCSO
- April Thompson - Alpine SD
- Emma Smith - Cache SD
- Colby Ferrin - Canyons SD
- Alex Goaslind - Davis SD
- Amanda Cole - Excelsior Academy
- Spring Creek Middle School Team - Cache SD
- Sharla York - Cache SD
- Karre Nevarez - Alpine SD



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# USBE Items

## SEEd Standards Revisions

- According to the [standards revision timeline](#), standards are to be reviewed and potentially revised on a 7 year rotation.
- The Annual Core Standards Survey indicated that a common concern with the SEEd Standards is:
  - Depth and Support: Standards are seen as having tremendous depth but lack support for teachers to teach them effectively.
- USBE Science Staff is seeking [SSECC's feedback](#) on the need for revising the SEEd Standards

## Formative Assessments for Canvas New Quizzes

- Many districts across the state have put the Formative Assessments into Canvas' New Quizzes.
- USBE has created a [Google Drive folder with instructions](#) to share them across the state.
- Shoutout to Canyons, Davis, and Nebo Districts!

## Printing Services for OER Textbook

- USBE has secured two printing services for the OER Textbook (Thanks Maggie!)
- Access [this document](#) to access the order forms.

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## USBE Items

### School Fees

- In 2024 session, the Legislature removed the LEA's ability to charge school fees for "School Equipment".
  - School Equipment - Durable, reusable, consumable, owned and retained by the school
- The legislature is planning on having another school fees bill in the 2025 session to further clarify.
  - The goal of the legislature is to have no school fees associated with courses that are required for graduation.
- In Table Groups, discuss the following:
  - How aware is your LEA of this change to fees?
  - What impacts will this have on schools in your LEA?
  - If the legislature removes the ability for science classes to charge fees, what supports from USBE would be helpful to you and your teachers? (Answer this question below)

More money
Info/ideas/suggestions about differentiating between "elective" and "core", are there ways to get funding within this structure?
Information about grants and how to apply for them. Better yet, you guys apply and allocate funds.
Decide on a 'minimal acceptable' science amount of money, 'demand' that the legislature replaces this amount

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## USBE Items

### Science Assessment Updates - Scott Roskelley

- 2023-2024 RISE Science Results
- 2023-2024 Utah Aspire Plus Results
- 2023-2024 ACT Results
- National ACT Changes for Spring 2024-2025
  - How those changes affect Utah

### 2023 and 2024 Science Scores

Test	Grade	2023 Score	2024 Score
RISE	4	48.6	49.6
RISE	5	50.3	51.5
RISE	6	54.5	55.5
RISE	7	44.5	45.2
RISE	8	47.4	48.8
UA+	9	37.8	41.6
UA+	10	32	33.6
ACT	11	20	20

### National ACT Changes

- April, 2025 - Science section to become optional on National ACT Test
- Science score to be combined with math score to calculate the STEM score
- The composite score will be composed of reading, English, and math scores
- Science section will be 40 items, but allow 45 minutes to complete
- New science content will relate to 3-dimensional standards, aligning better with most states science standards

### What ACT Changes Mean for Utah

- Nothing changes until 2027 when the ACT contract ends
  - Future legislation and contract negotiations may necessitate changes after 2027
- The UA+ test will continue to test science and give the required ACT prediction
- The composite scores for Utah ACT test takers will change to the new composite scoring in

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Spring 2026

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## **Supporting MLL Students in Science**

Christelle Estrada

English Learners, Refugees, and Immigrants Specialist

- [Title III Classroom Observation Tool](#)
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Questions, Comments, Concerns?

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## **Closing**

[Fill out this exit ticket](#)