2020 Virtual Science On a Sphere[®] Users Collaborative Workshop



Integrating SOS Technology in the K-12 Classroom Wednesday, Dec. 2 (3:20 PM Breakout)

Rachel Wellman, PhD - Palm Beach County School District Lauren Butcher - Pine Jog EE Center, Florida Atlantic University

Integrating SOS Technology in the K-12 Classroom Meet the Presenters





https://www.thepalmbeaches.com/



Rachel Wellman, PhD Boca Raton Community High School Palm Beach County School District (PBCSD)

https://sites.google.com/palmbeachschools.org/rachelwellmanphd/home

Lauren Butcher Pine Jog Environmental Education Center Florida Atlantic University (FAU)

Integrating SOS Technology in the K-12 Classroom Galaxy E3 Elementary School

- <u>Title 1</u> Public School
 - Boynton Beach, FL
 - PBCSD
- Platinum level LEED facility
 - \circ Uses 42% less energy
- SOS installed in 2013
 - Upgrade planned for 2021



Galaxy E3 Elementary School

Integrating SOS Technology in the K-12 Classroom How???



Earth Systems Science (ESS) *Water Cycle *Weather and Climate *Flow of Energy *Human Impact Example





Earth Structures (SC.K-12.E) Earth and Space Science *Water Cycle *Weather and Climate *Flow of Energy *Human Impact Example

Integrating SOS Technology in the K-12 Classroom Discovering Datasets and Connections



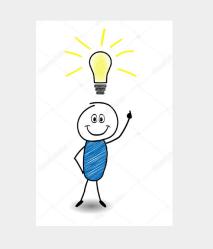


Image - https://images.app.goo.gl/BSXnQ7y8Ea8LRDTF8



https://sos.noaa.gov/datasets/water-falls/ https://youtu.be/FwxnSaoq0_k

https://sos.noaa.gov/datasets/water-cycle-a-water-falls-docent-script/

Integrating SOS Technology in the K-12 Classroom 2014 - Present

Galaxy E3 Elementary School

2015 SOS Users Collaborative **Network Workshop**



Investigating Lessons Waterfalls Lessons Additional Lesson Plans from NOAA

Technical Support from BWC and

PBCSD Volunteer, Kelly Fallon - Linux Systems Engineer

Field Trips with Boca Raton Community High School students Expanding on lessons to Reading Goals **9-12 Students Teaching K-5 Students!!! (Ex. Children Story!)

NOAA Environmental Literacy Grant



Integrating SOS Technology in the K-12 Classroom NOAA Environmental Literacy Grant

Program: Climate READY! (Climate Resilience Education and Action for Dedicated Youth)



Grantee:

• Pine Jog EE Center, Florida Atlantic University

Partners:

- <u>School District of Palm Beach County</u>
- Galaxy E3 Elementary School
- PB County Coastal Resilience Partnership
- Palm Beach County Office of Resilience
- <u>SE Florida Regional Climate Change Compact</u>
- City Sustainability Offices <u>West Palm Beach</u>, <u>Boynton Beach</u>, <u>Boca Raton</u>

Integrating SOS Technology in the K-12 Classroom NOAA Environmental Literacy Grant

Drevfoos SOA

Climate READY Components:

- CR Institute Teen Ambassadors
- Teacher Professional Development
- Afterschool Students (Grades 4-8)
- Community Outreach Events

Communities:

- Glades
- Riviera Beach
- West Palm Beach
- Lake Worth
- Boynton Beach/Delray
- Boca Raton



Forest Hill Community High, WPB, FL

Integrating SOS Technology in the K-12 Classroom Future Plans

- Tools to use in a Digital Classroom
 - SOSx Mobile App
 - Virtual Field Trips
 - <u>Google Tools</u> **Collaborative!
 - Docs, Meets (Breakout Rooms), Slides, Sheets, Draw, etc.
 - o SMART Boards
 - Jamboard, Kahoot, Quizziz, Quizlet, etc.



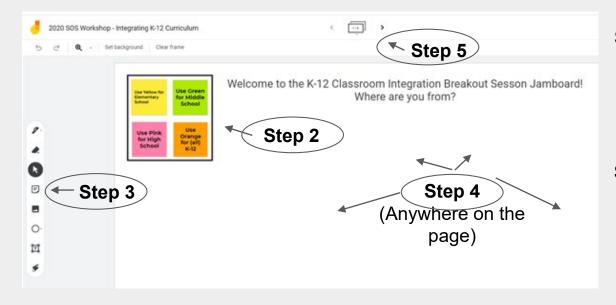






Integrating SOS Technology in the K-12 Classroom Share

Thank you for letting us share our story. Now let's hear from you through Jamboard: https://jamboard.google.com/d/1ruvG7DNQdyxYdbW_lsVqd-EuM3yDiEXNmX-0xpHpeBc/edit?usp=sharing



Step 1

Step 1: Click on the link above Step 2: Identify with a "sticky note" color (yellow = elementary, green = middle, pink = high school, orange = (all) K-12Step 3: Use the toolbar on the left and click on the "Sticky Note" icon (Ctrl+Shift+P) Step 4: Provide an answer for questions 1-4 Step 5: Use arrows at the top to move through pages Note: All contributions are anonymous unless you state your name