

## 2020-21 REAL Science Teacher Leadership Institute Resources and Links

### **SESSION 2: VAPA and Math Integration**

**Video of session** (unedited--fast forward as needed through some breaks):

[https://drive.google.com/file/d/1GUjMN\\_BP\\_DorgyRV7Tu0GqycndTPBCKc/view?usp=sharing](https://drive.google.com/file/d/1GUjMN_BP_DorgyRV7Tu0GqycndTPBCKc/view?usp=sharing)

**Mood meter:** <https://www.gopaintlove.org/mood-meter>

**Draw, Write, Sit and Listen - Tune into the musical sounds of water.**

<https://www.youtube.com/watch?v=h8Cvd4sSMdk>

<https://www.youtube.com/watch?v=foGMTdxewBI>

<https://www.youtube.com/watch?v=Mr9T-943BnE>

**Visual thinking strategies:** <https://vtshome.org/about/>

**Watershed basics:** <https://www.neefusa.org/nature/water/lesson-1-watershed-basics>

**Art Applications: 3 Project Examples**

1. <https://www.savetheredwoods.org/blog/watershed-mural-inspires-student-learning-creativity/>
2. <http://artscouncilsantacruzcountyartsathome.weebly.com/visual-arts.html>
3. <http://artscouncilsantacruzcountyartsathome.weebly.com/visual-arts.html>

**Universal Design for Learning:** <http://www.cast.org/impact/universal-design-for-learning-udl>

**Resource for deeper math practice and content exploration:**

<https://contentexplorer.smarterbalanced.org>

**NYT: What's going on in this graph?**

<https://www.nytimes.com/column/whats-going-on-in-this-graph>

**ASYNCHRONOUS LEARNING--Please read this Formative Assessment Probe:** [What is a Watershed?](#) From *Uncovering Student Ideas in Earth and Environmental Science* by Page Keeley and Laura Tucker [What is a watershed probe with article:](#)

**More Watershed Resources:**

**Model My Watershed** Analyze mapped watershed data, visualize monitoring data, and run model simulations of human impacts on water quality.

**K Watershed Lesson** from Coastal Watershed Council in our local SC Watershed project.  
<https://www.youtube.com/watch?v=Q010ZjTCrQ0&list=PLbiJJDKQ8c6ctOb8CAB3vjAdqVnr08BsE&index=5> Shared by Elizabeth Lindsley.

Super cool **nature journal art walk**:

<https://www.massaudubon.org/get-outdoors/wildlife-sanctuaries/arcadia> .....

They have an ART walk with each station along the way exploring an element of art in the natural world. It inspired Janet Stahl to think about doing this at their local park.

**ZunZun** <http://www.thewaterbeat.com/index.html>

Zun Zun is a local educational musical group who has put together activities and musical videos about water on their website. <http://www.thewaterbeat.com/index.html>

**Elkhorn Slough data portal useful for math modeling and application:** Water Quality at 29 Reserves [-https://coast.noaa.gov/estuaries/science-data/](https://coast.noaa.gov/estuaries/science-data/)

## **SESSION 1: Science and Environmental Literacy in Current Context & Shared Learning Experience Using Hyperdocs**

**Native Land.** <https://native-land.ca/>

**Sit Spot video:** <https://www.youtube.com/watch?v=DIL4wxaEiPs>

### **Breakout 1 Prompt:**

How can a sit spot routine connect with any of the following?

- Social Emotional Learning and Mental Health
- Distance Learning constraints
- Science vulnerability
- Integration + engagement
- Environmental literacy and environmental justice

### **Hyperdoc for Shared Learning Experience:**

[https://docs.google.com/document/d/1JOCLYu4XaS0RtAlaEAP\\_XOEcjO4yckDtABIBxum-0SQ/edit?usp=sharing](https://docs.google.com/document/d/1JOCLYu4XaS0RtAlaEAP_XOEcjO4yckDtABIBxum-0SQ/edit?usp=sharing)

### **The World's Water:**

[https://www.usgs.gov/special-topic/water-science-school/science/how-much-water-there-earth?qt-science\\_center\\_objects=0#qt-science\\_center\\_objects](https://www.usgs.gov/special-topic/water-science-school/science/how-much-water-there-earth?qt-science_center_objects=0#qt-science_center_objects)

### **Breakout 2 Prompt:**

What are your takeaways from today?

What needs do you have for next time?

**Note Catcher:**

<https://docs.google.com/document/d/10DHcwvdPbeYbplZMb8JhCZATtUNs2mpnko7avT4RREE/edit?usp=sharing>