



Hello Science Education Leaders,

I hope you're doing alright... Here are the latest science education resources and learning opportunities I've heard about. If you have announcements to share about science or STEM-related professional learning and resources, please send them my way for the next edition. A record of these emails can be found on my website: [dpi.wi.gov/science/social-media](http://dpi.wi.gov/science/social-media).

Cheers,  
Kevin

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### Learning Opportunities

- [Webinar on Virtual Science Teaching](#) - from NSELA May 5 at 1pm
- [Community walk webinar](#) + others - Apr 30 at 12pm
- [Webinar recording](#) - How to Support Home-Based Science

### Resources

- [At-home Science Learning Collection](#) - Kevin's resource page
- [WISELearn grants to create OER or review materials](#) - \$10k due June 12
- [Resources on the science of Covid-19](#)
- [Resources from 3D Molecular Modeling on understanding Covid-19](#)
- [Pros and Cons of Distance Work](#) (based on research)
- [A short motivational video on exercise](#) (taking care of ourselves)

### Student Opportunities

- [Learning Computer Science Resources for Students](#)

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## Details

### Learning Opportunities

- Webinar on Virtual Science Teaching - from NSELA May 5 at 1pm
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<https://nsela.memberclicks.net/> - How can we reimagine science learning in a way that that makes sense during the pandemic? How can we help teachers and families keep learning going in a meaningful way? This webinar is complimentary to both members and non-members for NSELA. Register for the event [here](#) in order to get the join information. The speaker, Kathy Renfrew, is an experienced elementary teacher/educator who has been privileged to hold many roles in her career. She was an elementary teacher who moved to the Vermont Agency of Education as the Elementary Science Assessment Coordinator.

- Community walk webinar - Apr 30 at 12pm

<https://stemecosystems.org/stem-families-virtual-home-lab/> - Tired of being stuck in the house? Bring your family outside and join us for a fun filled family nature walk around backyards, nature trails, and neighborhoods across the U.S. Our nature guide has constructed a scavenger hunt that will help your family discover shapes and structures found in the outdoors. Grab some safe footwear, a water bottle, and your family to discover the beauty that is nature. This activity can be adapted for children grade K-8 and could give teachers ideas for their classrooms. There are other activities and opportunities at this website as well.

- Webinar recording - How to Support Home-Based Science Learning

<http://stemteachingtools.org/sp/HomeBasedScienceLearning> - this webinar (and related resources) from the STEM Teaching Tools gurus emphasizes a lens of equity and cultural responsiveness in this time of learning.

## Resources

- At-home Science Learning Collection - Kevin's resource page

[Link to Google doc](#) - I've pulled together some general resources on how to approach at-home learning, some resources for taking care of yourself, and some instructional resources suggested by teachers.

- WISELearn grants to create OER or review materials - \$10k due June 12

<https://dpi.wi.gov/wiselearn/oer-innovation-grants> - These grants for up to \$10k can be one district or a multi-district collaboration with a CESA. They can be used for reviewing instructional materials or creating OER materials to be placed in the [WISELearn database](#).

- Resources on the science of Covid-19

[Link to Google doc](#) - collective list of resources on understanding this new coronavirus and Covid-19

- Resources from 3D Molecular Modeling on understanding Covid-19

<https://www.3dmoleculardesigns.com/The-Science-of-Coronaviruses.htm> - video demonstrations showing how coronaviruses work using 3D models

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- Pros and Cons of Distance Work (based on research)

<https://www.npr.org/sections/money/2020/04/28/846671375/why-remote-work-sucks-according-to-science> - interesting NPR on some of the challenges of working from home, and a couple benefits.

- A short motivational [video on exercise](#) (taking care of ourselves)

<https://www.danpink.com/pinkcast/pinkcast-3-01-this-is-how-to-motivate-yourself-when-you-dont-feel-like-exercising> - I found these ideas from Daniel Pink (author of [Drive](#)) to be useful, considering that I "get to" exercise instead of "have to."

### **Student Opportunities**

- Learning Computer Science (Python) Resource for Students

If your school is enrolled in the Microsoft Imagine Academy (MSIA), then you get access to a full Introduction to Python Programming course. Participation is free for Wisconsin schools as part of the state budget and you also get free Python-Microsoft Technology Associate (MTA) certifications tests for your students. It's a bit long for an overview, but Microsoft has a 15 minute video that highlights their Python course posted online at <https://imagineacademy.info/index.php/training>.

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"Science is not a body of facts, [it] is a method for deciding whether what we choose to believe has a basis in the laws of nature or not." – Marcia McNutt