Newtown Public Schools

Kris Feda

- Math/ Science Specialist at Sandy Hook School
- 34 years teaching in Newtown- 19 years in the classroom, 15 years as Math/Science Specialist
- Training through MSP grants include Inquiry for Teaching and Learning Series, NGSX, CUDI, from CT Science Center, NGSS Training from CREC
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Todd Stentiford

- Science Instructional coach at Reed Intermediate School
- 20 years teaching, 19 years in Newtown-17 years as a classroom teacher, the past two years as a science instructional coach
- Training through MSP grants include Inquiry for Teaching and Learning Series, NGSX, NGSS training from CREC
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Timeline

- Newtown Public Schools' alternative learning plan commenced on March 18th
- First distance learning science lesson was shared on March 19 for Grade 5, and March 23rd for grades K-4
- K-6 schools are 1-to-1 student to Chromebook/iPad
- Chromebook distribution to families, making for a paperless option
- Wireless hotspots were made available through district tech

Planning

Examined what remaining PE needed to be instructed. Established scope and sequencing for remaining PE's

Grades K-4

- Needed to examine what PE remained untaught in the current unit being taught and any remaining units for the year for grades K-4
- Among the 4 MSS we divided up the work of rewriting lessons to include at least 3 days of science per week
- These lessons were shared among the grade levels at the 4 elementary buildings for teachers to insert into their lesson plans

Grade 5

- Coordination with STEM teacher, Assumed lesson planning for our 12 math/science teachers
- Thematically grouped performance expectations, keeping in mind generalized limitations of at home instruction/materials, cooperative learning opportunities.
- Uploading lessons for a week ahead in order for SE staff to review and adapt.

Distance Learning Science Assignments

Science Lessons for Grade 1



Week of March 23 - March 27

Day 1

- Watch the Listening Walk with Mrs. Bracksieck video.
- Take a walk around your yard or neighborhood (with an adult) and list 5 sounds you hear.

Day 2

Read pgs.1-13 of eBook <u>Sounds All Around</u>

Day 3

Finish reading pages 14-25 the eBook <u>Sounds All Around</u>

Day 4

 Use materials you have at home to build an instrument. What kind of sounds can you make? Loud? Soft? High? Low?

Day 5

 Take another walk around your yard or neighborhood (with an adult). This time, list 3 things you see that you never noticed before.

Distance Learning Science Assignments

The Birth of Rocks Grade 4 Unit Week 4



This week students will learn about the types, causes, and dangers of landslides.

Week 4- Erosion, Natural Hazards & Engineering

Mystery #3 - How could you survive a landslide?

Day 1- Explore

- In your "The Birth of Rocks" journal put today's date at the top of a new page.
 Write a few sentences describing what you think a <u>landslide</u> is.
- · Watch the Exploration part of Doug's video.
- Think about why all of the rocks came down at once. Write a few sentences in your notebook explaining what you think.

Day 2-

- In your "The Birth of Rocks" journal put today's date at the top of a new page.
- Watch the next part of the video.
- · Answer these questions in your notebook:
 - Imagine you were trying to decide when and where to go camping in a hilly area. What would you look for to decide whether it's a safe place to camp?
- . Continue watching the video.
- In your notebook list as many ideas as you can think of to protect your house. If someone at home is available talk about your ideas with them.

Day 3 & 4-

- Choose one of the Engineering ideas you came up with to protect your house.
 In your "The Birth of Rocks" journal put today's date at the top of a new page.
- On this page of your notebook draw a sketch of your design plan and write some sentences to explain it.
- Present your idea to someone in your family.
- . On a new page of your notebook write
 - 1 thing your REALLY like about your idea AND
 - 1 thing that would improve your idea



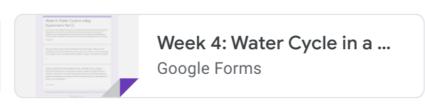
Todd Stentiford Apr 2 (Edited Apr 2)

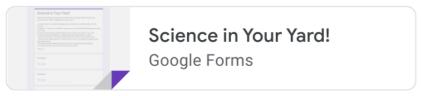
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Grade 5:

For this shortened week, your students will have an opportunity to extend their observations and deepen their thinking around their water cycle in a bag from last week. We'll have them looking to notice patterns in the bag that roughly parallel the real-world activity of water vapor. It shouldn't take too much time for students to complete, so for teachers that haven't assigned the iNaturalist activity from last week, that could be assigned this week as well. If you feel they need more work (!), they could always be asked to complete additional iNaturalist observations to add to those they've already done.



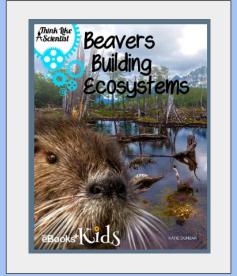




Resources/ Technology

- Mystery Science
- PBS Learning Media
- NSTA ebooks
- Local nature centers/ professional environmentalist
- PHET simulations
- Google Classroom/ Seesaw
- G Suite: Classroom, Slides, Sheets, Meet, <u>Keep</u>, Docs, YouTube, Forms
- Editable PDF

Resources







Local Nature Centers - CVHS

NSTA eBooks



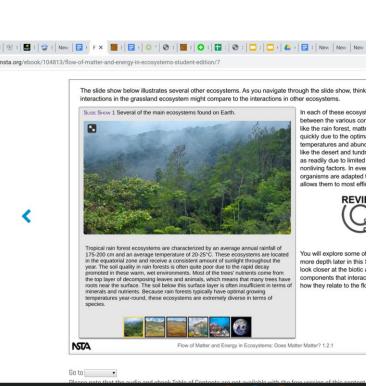


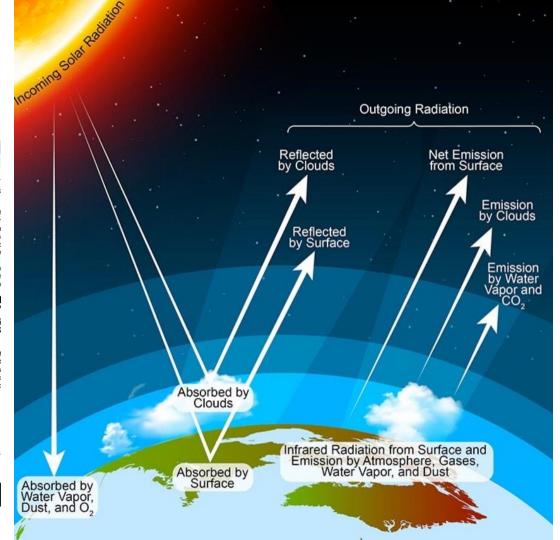
YouTube

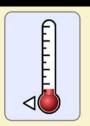




Books

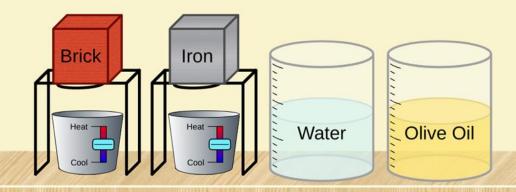






















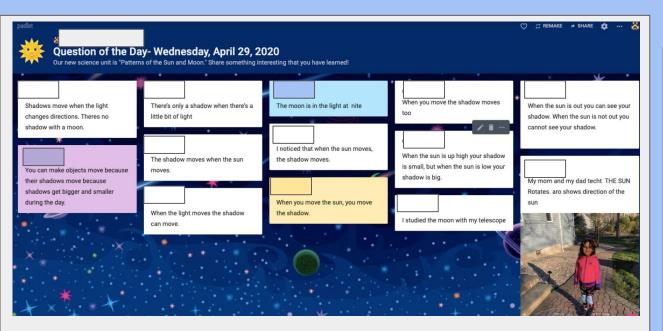


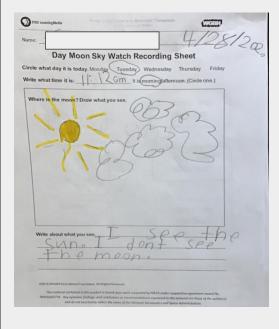






Kindergarten- Carrying out an investigation and recording observations of a walking rainbow.





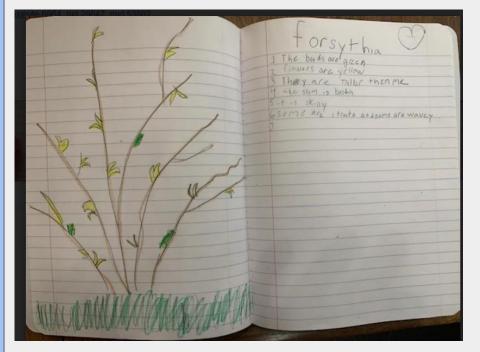
Grade 1 - Padlet of student answers to a given questions

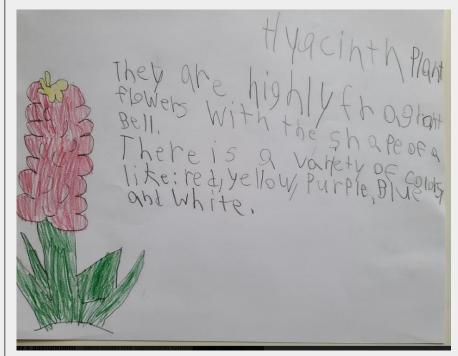
Grade 1 - Daily journal entry to collect and record data



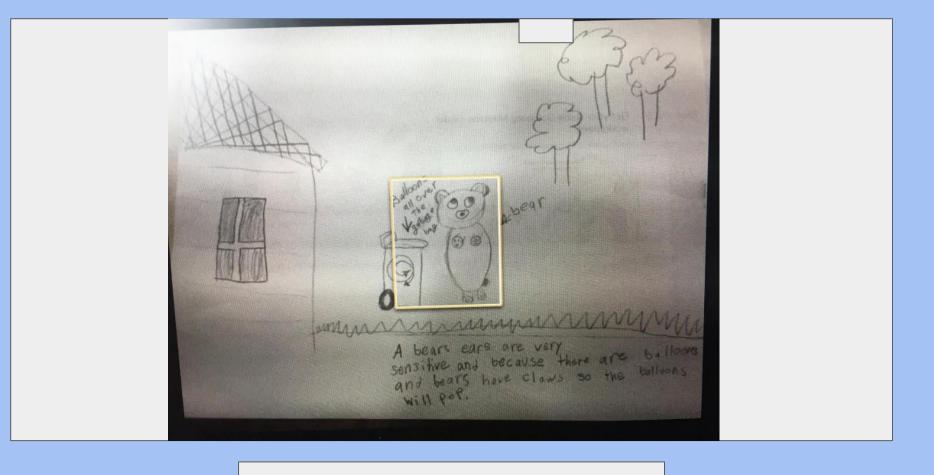


Grade 1 - Students'work posted for classmates to see how they carried out an investigation of moving a flashlight to make shadows move.





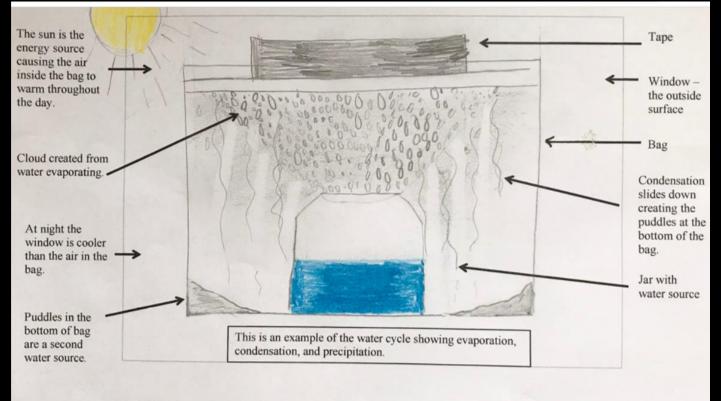
Grade 2 - Student observations of characteristics of a plant communicated in a science journal used throughout the unit.



Model of a bear deterrent



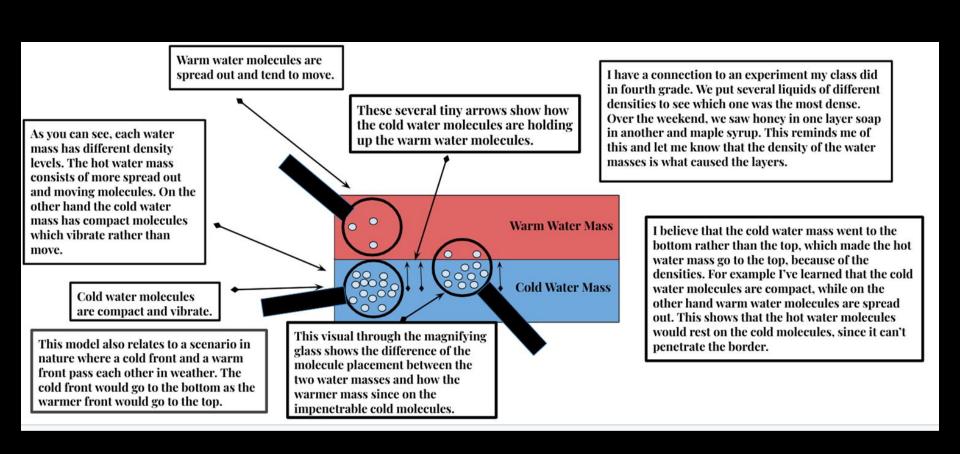




I think that the condensation is forming throughout the night. I think what is happening is at night the window cools down and the air in the bag is still warm from the sun which is the energy source. Having the warm air in the bag up against the cold window, the outside surface, causes the water from the water source to evaporate and create condensation that forms on the side of the bag up against the window. That condensation forms heavy water droplets that slide down the bag and form puddles at the bottom of the bag. These puddles are now a new water source that also evaporate along with the water in the jar as the cycle continues.



water : 35: 51 Container **FDivided** Timer More Space between the mokenks Hot water More heat, more movement is less denke than molecules cold water Hotuster Water Kind of Blue and Cold Red makes Mixed together ess movement Water Purple



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