

Technology Lessons/Makerspace Share Session ES

February 16, 2017

Please share your ideas here! Provide a short description and grade level; please provide links as needed.

Osmo

We love using all of the Osmo apps for our tech lessons/and leave them out in our Makerspace area when we aren't using them whole group. The kids love it so much, they don't mind sharing.

Below are some pictures of Newton- one of our favorites! ~Margo Fryling, Eastvalley ES



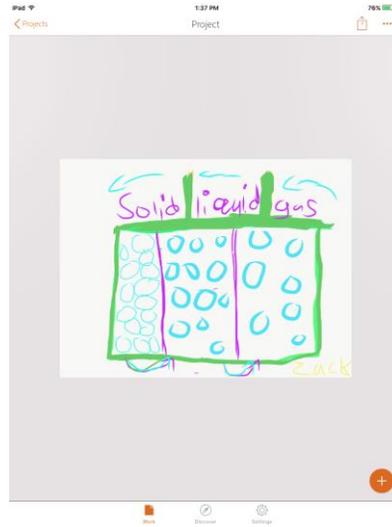
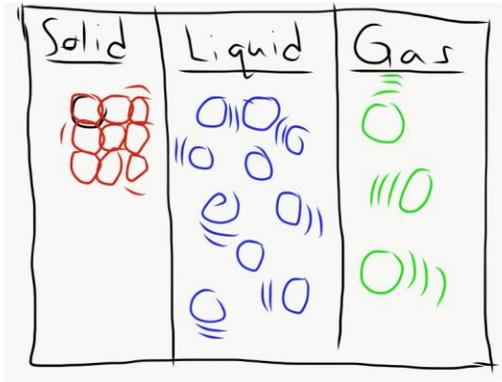
Kano

Fifth graders at Big Shanty using Kano Kits (Raspberry Pis) to learn coding in Scratch. We are doing the lessons (or adventures) from “Adventures in Raspberry Pi” by Carrie Anne Philbin.



Adobe Sketch

Fifth grade drew on layers in Adobe Sketch to review for their science test and loved it! ~Margo Fryling, Eastvalley ES



Chrome Build – Online Legos: Here they are writing "Lead" to go with our Leader in Me vocabulary. Margo Fryling, Eastvalley ES



Effective Web Searching

We are currently working on effective searching in Bing in the Classroom with 5th graders, and I will roll this lesson back into 4th grade next month. I noticed that our students were relying solely on the questioning technique when searching encyclopedia databases and Bing and decided to revamp and reintroduce an oldie but goodie.

We open with a talk about how search engines use spider (bots) and the Matrix, which they love. We discuss how search engines monitor our use and change the results (think Amazon and Facebook). We also have a short discussion on Siri, Alexa and AI and how they affect our search for and access to information. I broke the search sessions into the three standard styles:

1. Questioning (with a mini-discussion of Wikipedia)
2. Keyword searching (which includes subject and phrase searching along with the use of parentheses and the elimination of stop words)
3. Boolean operators (AND, NOT, OR)

We practiced searching for fun topics (dove vs “Dove Cameron”), and we learned how Bing uses Boolean (it has its own requirements). There was no writing for the lesson, just students with laptops. Surprisingly, they stayed engaged because I had them focus on the changing amount of search results and the “bobbing” of sites to the top. They enjoyed watching each other’s results because after the same exact search, some would get different amounts of returns. We never decided on an answer as to why that happened, which was itself a teachable moment. Because I introduced this lesson to 5th graders, I will monitor the 4th graders for successful use of search styles going forward.

~Leigh Perisino, Kincaid ELE

Kindergarten Content – Rocks – Show what you know

SKE2. Students will describe the physical attributes of rocks and soils.

We used the AP **Doodle Buddy** to show mastery in the Kindergarten Tech standards and to review the Science standards. Students chose a rock from my inquiry station and took a picture. They then used the free AP to list attributes of the rock.

Kris Cable – Compton ES



Fourth Grade Weather Reports

After collecting data about various regions of the country, teams of students made weather predictions and created a weather news show using the Green screen and broadcast equipment. This met science, technology and speaking standards.

Kris Cable – Compton ES



First Grade – Meet A Famous American

First Graders study many important Americans throughout the semester. They chose one historical leader and used the AP **Chatterpix**, to animate. They also practiced presentation skills, so we could be sure everyone could learn from each other. We uploaded all their videos to **Padlet** for the students to use as a study guide.

https://www.youtube.com/watch?v=-FZ_vnKo0Yk

Kris Cable – Compton ES



DASH AND DOT, aka Fred and Barnie and Francis and Martha



Our first graders are learning the basics of coding and just plain having fun using Dash and Dot.

While their classmates and teacher are using Osmo with tangrams to collaborate and problem solve.



Our Learning Commons motto is "Collaborate, Create, Communicate".

Kim Holcombe, Sedalia Park ES

Kahoot!

I used **Kahoot!** to create a game about finding books in the learning commons. Here's an example of one of the questions. *Where should you look to find a book with this call number? Show a picture of a call number such as " E RYL"*, then students choose from 3 or 4 of the ranges we have posted on the bookcases. Students used iPads to play this game. This lesson can be adapted for grades 1-5.

I bought 4 Rubik's Cubes for our makerspace. They have been an extremely popular addition to the makerspace area.

Shirley Trammell, Ford ES

I use **Kahoot!** as well and love it. It is limited to multiple choice questions. The format really keeps them engaged. It's easy to set up for individuals or teams.

I have also been using "**Goosechase**" as a follow up to Nonfiction text features. This one is not as easy to set up as Kahoot! but students can provide examples of various text features by posting pictures of them or providing information utilizing the text feature to find it. All of the student responses are posted immediately so we can monitor/talk about their responses right away. Goosechase requires an email address for users to login so I made up several generic emails/users. I log the students in.

Kathy Culbertson, Powers Ferry Elem.

Makerspace Logistics

Patti Towne--Mableton Elementary

This is our first year with a Makerspace. We have been collecting items and asking for donations to supply the room with materials for the students. We have realized that the basics of cardboard cereal boxes, tape, construction paper, egg cartons, etc. are perfect to use in our makerspace. We are a STEAM school and integrating the arts as well as the technology has been our focus this year. We actually have one room dedicated to creating with hands on materials and one room devoted more to the technology and coding side of STEAM. The pictures below show it is not a "clean" area but it is organized. We have had to learn to accept that this area isn't always tidy. Being able to listen to the kids talk about it has been my greatest joy this year. I have become more of a facilitator of the learning commons/makerspace area rather than teaching a lesson out of context from the classroom lessons.

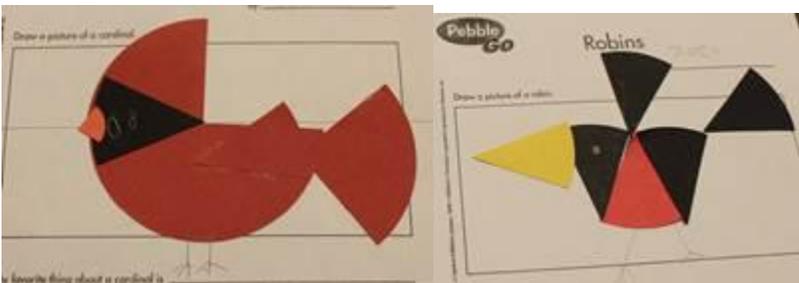


Technology and Nature

We have been preparing for the Feb. 17 Great Backyard Bird Count <http://gbbc.birdcount.org/> with a unit on identifying birds.



I have worked with kindergarten and 1st grade primarily; this ties in to several of their science standards. First, we used PebbleGo as an introduction to different songbirds and their sounds. Using math terminology, we made geometric pictures of 2 "red birds" to understand the difference in cardinals and robins. The idea was adapted from Ed Emberly's book *Picture Pie*.



Teachers have used Sign-Up Genius to reserve a 15 minute bird watching and counting session in the media center tomorrow. The science teacher and I are working collaboratively on this. We will use the Audubon Bird Guide app

http://www.audubon.org/apps?ms=digital-acq-ppc-googlex20160000_google_grant&gclid=Cj0KEQjAuJXFBRDirIGnpZLE-N4BEiQAqV0KGh9QWw9D-OO-PI_z25FtDnKuLB0fbMDDTTIOt-W-4tgaAo638P8HAQ for specific bird identification by sight and sound; We both have used this already with a few older students and they love it. Data is submitted by each group of citizen scientist birders through the eBird app <http://ebird.org/content/ebird/about/> to the Cornell University School of Ornithology.



Linda Johns, Milford ES

In a Makers Space Lesson we observed changes in matter with different solutions. Students made a short video of their findings. ~Margo Fryling, Eastvalley ES

