



## PROGRAMS & COLLABORATORS

### Students Sharing Science

- Integrated Science Class  
Waimea Canyon Middle School
- Sciencenter, Ithaca, NY
- County of Kauai, Office of Economic Development.
- Kauai Makerspace
- Dr. Chuck Blay

### Professionals and Learners Collaborative

- 20% Science Fair Class  
Waimea Canyon Middle School
- Coalition for a Tobacco Free Hawaii,  
Hawaii Public Health Institute
- NEPRIS
- Kauai Makerspace
- You can learn more and sign up at  
<https://kauaicsc.org>
- You do not have to be on Kauai to participate.
- All professionals are welcome!

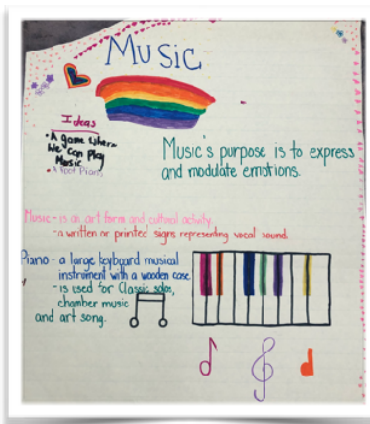
## Follow us on Social Media @kauaicsc



# KCSC Newsletter

In this KCSC Newsletter, learn more about Students Sharing Science, the first pilot project collaborating with Waimea Canyon Middle School and The Sciencenter in Ithaca, NY which started in October 2019. This pilot project is supported by KCSC's first grant from the County of Kauai.

Students in Mrs. Rowe's, Integrated Science Class at WCMS are finding the science in their favorite things and working on developing exhibits for the community.



**Music themed project student ideation**

KCSC is also working with Mrs. Yamagata's, 20% Science Fair Class at WCMS. We are working on connecting the students with relevant professionals to help them enhance their learning on their science fair project topics. We have had a soil scientist from Oregon speak with two students whose projects were related to soils via NEPRIS. A health professional met with a student developing a vape detecting instrument and a professional from Kauai Makerspace is supporting a student learning about Arduino boards.

It has been a great 2019 for Kauai Community Science Center. KCSC has learned a lot and made a lot of new connections. We are so thankful and we are excited for all that 2020 will bring. Learn more about what we do on our website, <https://kauaicsc.org> and you can also follow us on social media at @kauaicsc.

Their interests range from art to sports and about everything in between. Their exhibit ideas are related to colors, cooking, engines, fishing, pianos, football, climate, and photography to name a few. KCSC is fortunate to have great students, dedicated teachers and excellent professionals to work with.



**Art themed project student ideation**



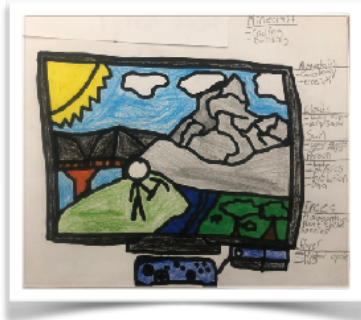
# Students Sharing Science

Kauai Community Science Center has been meeting with the Waimea Canyon Middle School Integrated Science Class since October 22, 2019. Since that time we have been coordinating with Mrs. Deborah Rowe, the Science Teacher at Waimea Canyon Middle School and Adrienne Testa, Vice President of Museum Experience from The Sciencenter in Ithaca, NY.

During our first visit KCSC provided the students with "Big Idea" books. These are books that the students can use to sketch, write down ideas, paste in pictures or whatever they like to help them develop their "Big Ideas". Adrienne Testa shared with the students that the "Big Idea" is the thing that people will take away after visiting their exhibits. Developing the "Big Idea" is a significant component of real world exhibit design and they are learning this directly from a professional.



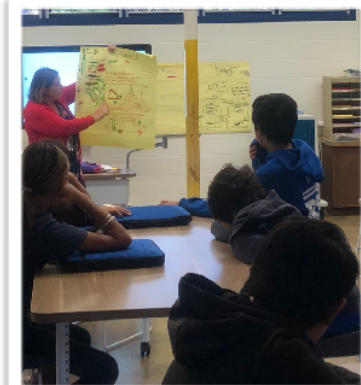
**"Big Idea" books**



**Student artwork & ideation**

Mrs. Rowe has the students working with all kinds of creative processes. Initially she introduced them to science center exhibits and had them explore some examples of hands-on activities that demonstrate basic scientific principals. Then they went through a process of thinking about the things that they like and determining what scientific principals are relevant to their favorite things and hobbies. This generated a lot of great artwork, brainstorming documents and exhibit "Big Ideas" that the students are now moving to the next stages of development.

As of December, the students have selected their exhibit topics and some are even starting to build prototypes. KCSC will be facilitating a CAD training for the students with Rich O'Reilly from Kauai Makerspace so that the students can use this tool to prototype their projects and/or 3D print part of their exhibits. We are also expecting some subject experts for visit with the students in the near future to further support them in their exhibit design. These professionals include scientist, artists, a retired professional football player and we hope many more. If you are interested in sharing your expertise please contact Sarah Styan, [sarah@kauaicsc.org](mailto:sarah@kauaicsc.org).



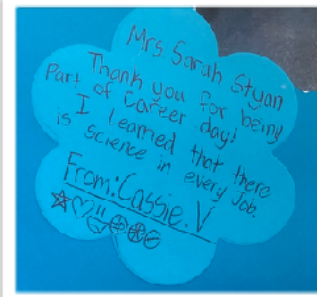
**Mrs. Deborah Rowe in the classroom**

## **Mrs. Deborah Rowe, Integrated Science Teacher & Technology Coordinator**

### **Waimea Canyon Middle School, Waimea, HI**

*"Students are exploring the science behind topics they are interested in and plan to share this with the community by creating exhibits for the Kauai Community Science Center. KCSC has helped connect my students to professionals and field experts to spark joy and deepen their learning. The authenticity and opportunity to make a difference in the community has helped transform their projects beyond the typical classroom experience."*

KCSC attended the Waimea Canyon Middle School Career Day on October 4, 2019. The Thank-You card from students was great and we really appreciated the meaningful comments!

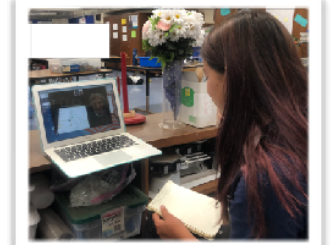


**Thoughtful thank you notes & Sarah Styan at WCMS Career Day**



**Sarah Styan at Kauai Career Fair**

Kauai Community Science Center attended the Inaugural Kauai Career Fair on October 28, 2019. This event was for all Freshmen students from Waimea, Kauai and Kapaa High Schools. Organized by KEDB was an opportunity for students to learn about careers so that they can make informed decisions about what career pathways that they will choose. No matter the career pathway or career academy, there is science in every future. KCSC is working to bring science and community together.



**KCSC utilizes Zoom video meeting calls and NEPRIS calls to connect students, teachers and other professionals.**

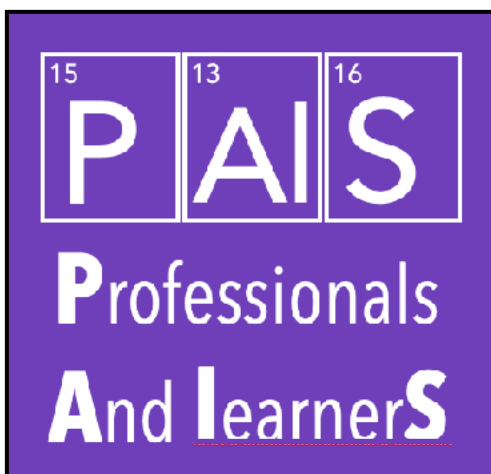
KCSC uses Zoom to stay connected. Zoom has been a great way for us to collaborate with Waimea Canyon Middle School and The Sciencenter in Ithaca, NY. Students in the Integrated Science Class have also had 1:1 consultations with Adrienne Testa over Zoom so that they can pitch their "Big Ideas" and get feedback on their projects from an exhibit design professional. Even if you are on Kauai you can use Zoom to make meeting with the students easier on your schedule. We have used NEPRIS as well with Mrs. Yamagata's 20% Science Fair Class. You can read more about PAIS on page 4 of this newsletter.

## **Adrienne Testa, Vice President of Museum Experience Sciencenter, Ithaca, NY**

*"Sciencenter is excited to partner with Kauai Community Sciencenter on their inaugural program 'Students Sharing Science'. The Kauai Community Science Center and The Sciencenter in Ithaca have a kinship because they were both founded through collaborations in their local communities and nationwide."*



**Adrienne Testa meeting with a student via Zoom video call.**



## Professionals And learners Collaborative

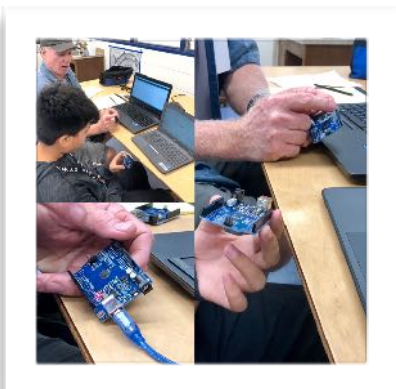
KCSC wants to connect professionals with students and educators to enhance their learning experience. If you are a professional working or retired, we are looking for you. You can register on the KCSC website, <https://kauaicsc.org/what-we-do>



*Dr. Chuck Blay consults with students.*

Before the end of the semester we were able to bring "in person" and via zoom video conference, more than six different professionals. These include public health professionals, earth scientist, computer programmer, CAD Designer, soil scientists via NEPRIS and we have had more

than six visits with Adrienne Testa, an exhibit developer, since we started Students Sharing Science in October. We look forward to hearing from you if you have any questions, suggestions or just want to know more.



*Kevin Arndt, from Kauai Makerspace working with a student.*

## What's Up with KCSC

**December 9 & 11, 2019**, Round 2 of 1:1 consultant meeting between Adrienne Testa and Integrated Science Class Students via Zoom.

**December 12, 2019**, Kauai Chamber of Commerce Q4 General Membership Meeting, KCSC will have a Member Spotlight Table.

**December 17, 2019**, OnShape computer aided design, CAD, training for Integrated Science Students at WCMS with Rich O'Reilly from Kauai Makerspace.

**December 17, 2019**, Students met with Dr. Chuck Blay during class to discuss their project about why the westside of Kauai is dry.

**January 31, 2020**, KCSC to participate in Ele'ele School STEM Night.

**February 3 - 7, 2020**, Adrienne Testa will be in Waimea to work with the WCMS Integrated Science Students.

**February 24, 2020**, Science @Your Library event, KCSC is now co-sponsoring Science@Your Library with the Lihue Public Library and Hawaii Alliance for Science.

**We will be hosting events for the students to test their exhibits in early 2020. Sign up to receive KCSC announcements and stay**