Ms. Louigina Vasquez
Austin Montessori-5th grade Science Teacher
Foldscope & Seesaw Blended Learning Pilot 2019-2020

Below are links to an ECISD educator's activities for Foldscope utilizing Seesaw as a digital learning environment as well as screen capture of Ms. Vasquez's Seesaw Foldscope class.

SEESAW ACTIVITY LINKS:

CELLS
https://app.seesaw.me/pages/shared_activity?share_token=N7fj5j9iTUyEVltHORoWew&prompt_id=prompt.17b7d9fb-669a-4d00-ad08-eee68e586baa

RAIN WATER
https://app.seesaw.me/pages/shared_activity?share_token=bFfL76jHRNGjS6pRLeBi7w&prompt_id=prompt.cb7cc953-7175-486a-b601-60759534984d

ANATOMY OF INSECTS
https://app.seesaw.me/pages/shared_activity?share_token=Ul42CR1LQ3SWuOkH8WnTAg&prompt_id=prompt.f23adf68-1151-443c-b309-555eaf6eaea6

EARTH DAY WITH FOLDSCOPE
https://app.seesaw.me/pages/shared_activity?share_token=Dhq4rELVRjKdVqlZrKP-IQ&prompt_id=prompt.cc20efd1-bd85-4d26-9d2a-5faf1a0744d4

SURGICAL MASKS: FIGHTING THE COVID-19 VIRUS
https://app.seesaw.me/pages/shared_activity?share_token=HHRNk3BfSeqNk_v-ewjL9A&prompt_id=prompt.02b96e83-6942-403c-ac90-8efe43365d8b

OBSERVE WITH YOUR MICROSCOPE AN ANT, FRUIT FLY OR GNAT. INVESTIGATE AND COMPARE HOW INSECTS UNDERGO A SERIES OF ORDERLY CHANGES IN THEIR DIVERSE LIFE CYCLE
https://app.seesaw.me/pages/shared_activity?share_token=__OJU5FjRSaszpZSssHrYA&prompt_id=prompt.ae8688cd-d0d4-4ef4-850e-e8d6a83cc9aa

HAIR SLIDE: DIFFERENTIATE INHERITED TRAITS BETWEEN YOUR HAIR AND THAT OF YOUR MOM OR DAD
https://app.seesaw.me/pages/shared_activity?share_token=mzbW8n7KRJ2DMN3W23orHw&prompt_id=prompt.732ab579-7aad-43ae-84a2-7865d7f0cc2e

LEAF CELL: INVESTIGATE HOW THE STRUCTURES AND FUNCTIONS OF A LEAF CELL HELPS IT LIVE AND SURVIVE IN A SPECIFIC ENVIRONMENT
https://app.seesaw.me/pages/shared_activity?share_token=T8I-tol2RA6A6Wh8oXXfxQ&prompt_id=prompt.476b2b5b-1acc-4e1b-bfd4-def64ac5e48d

HOW TO MAKE A SLIDE FOR A FOLDSCOPE: CREATE A VENN DIAGRAM OF YOUR TABLE SALT CRYSTALS AND SUGAR CRYSTALS
https://app.seesaw.me/pages/shared_activity?share_token=G5H4cBjSTm2yL-jZ98BxnQ&prompt_id=prompt.b6e6e3e1-6e12-478f-b651-083ccb4716e8

COMPARING FOLDSCOPE PREPARED SLIDE
https://app.seesaw.me/pages/shared_activity?share_token=T98R2XfFSumjOUbnca910A&prompt_id=prompt.93595e1d-d1f6-444d-b65e-a97603e81444

USING THE PREPARED SLIDE FOR FOLDSCOPE
https://app.seesaw.me/pages/shared_activity?share_token=RBA4NcS1SNaL0XMzt0j3Xg&prompt_id=prompt.1d0abfba-304b-4f4e-859b-2d178a41df34

REGISTERING YOUR FOLDSCOPE
https://app.seesaw.me/pages/shared_activity?share_token=SjR_l4L-THeeYhgmi0x4eA&prompt_id=prompt.24e19c84-09a9-4131-88f9-bd9b43b84118

BUILDING YOUR FOLDSCOPE
https://app.seesaw.me/pages/shared_activity?share_token=3SgktkURR82kvayxvP52zA&prompt_id=prompt.d699b9e1-b46a-40bb-b5fe-dcbba33a990b

FOLDSCOPE EXCITEMENT
https://app.seesaw.me/pages/shared_activity?share_token=Y5As8ezmSqCE97xVOC8tlA&prompt_id=prompt.d9af6c8a-8424-4e9e-8d61-9c3c8ef20d21

FOLDSCOPE
https://app.seesaw.me/pages/shared_activity?share_token=icJXATEeTBC1gZ2gEdosTw&prompt_id=prompt.184aca2d-f90f-4ac4-8031-9022184d7af8

Cells!

5th grade is doing some dirty water study today with their FoldScope.
I found some interesting things in one of my samples

I want you to identify:
-the eukaryotic and prokaryotic cells pictured
in the samples

- the anatomy of the insect

And any other thing that you might do research and find something interesting !

This is a continuation for your Six Kingdoms of Life

0 Responses, 0 Waiting for Approval, 0 Drafts, 0 Not Responded

Add Response

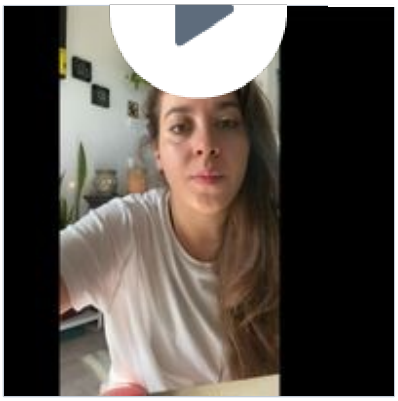
Assigned on May 12 at 11:10 AM

Assigned to All Students in Foldscope-Pilot

Template attached

Rain Water - FoldScope

Watch the video on how to prepare your slide for some dirty water !
Try to think of the dirtiest places water gets to store after a rainy day!
If it hasn't rain, or you get to do this activity later on the week...
- use a bowl with water, place it outside on a location that it can get dirty. Leave it from 5 to 7 days. Then, you might get a sample. Finally do



In some of the pictures you will nd eukaryotic and prokaryotic cells! You know about this two types of cells from previous lessons like Six Kingdoms of Life !

Don't forget to move around your sample, you might nd partial insect or something else that might be interesting to share with others !

Don't forget to ask for help from an adult to focus and get awesome videos or pictures !
I found out that iPhone's are the best option to record and take pictures .

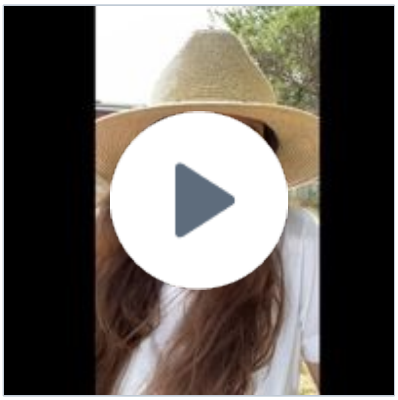
Upload and/or of your ndings.
Try to label the cells that you found! Look at my sample to guide you!

0 Responses, 0 Waiting for Approval, 0 Drafts, 0 Not Responded Add Response

Assigned on May 12 at 11:00 AM

Assigned to All Students in Foldscope-Pilot

Template attached



Anatomy of insects- Foldscope

Scientist go into the area of research and nd their samples by being around them. Today go outside and nd some small insects, the smaller you can the better!

Watch the video included in your instructions. Then, learn about the anatomy of the ant by reading the informational text in this link https://ants.com/ant-anatomy-101 (https://ants.com/ant-anatomy-101)
.

Go ahead and do your activity using Foldscope and your insect samples.

Template 1: Submit and of your samples.
Template 2: Submit a or of the anatomy of your insects.

-------> Go ahead and erase my examples and add your responses.

0 Responses, 0 Waiting for Approval, 0 Drafts, 0 Not Responded Add Response

Assigned on Apr 27 at 01:30 PM

Assigned to All Students in Foldscope-Pilot

Template attached

Earth Day w/FoldScope

To continue to amazing Earth Day celebration, we will study the differences between the veins found in plants.

First thing to be done, is to read the informational text and watch the video included in this link:
https://www.nationalgeographic.com/news/2017/03/human-heart spinach-leaf-medicine-science/
(https://www.nationalgeographic.com/news/2017/03/human-heart spinach-leaf-medicine-science/)

This activity will require a tree/plant leave (freshly cut from the plant or tree) and a decaying leave. The leaves that you will study need to be from the same living thing. On my video I used a fern leave; one freshly cut from plant and the second one a decayed one from the same pot.

Material you need to pull from your Foldscope pouches:

scissors
tape
clear sticker
tweezers
1 sample of plant/tree leave
1 sample of decayed leave
Foldscope

Follow along the video to know the steps and procedures.
Answer template provided. Describe everything that you see ! Do some research on what your leave has inside and tell us all about it!

Remember you are being scientists, so your responses should be very detail and elaborate.

0 Responses, 0 Waiting for Approval, 0 Drafts, 0 Not Responded Add Response

Assigned on Apr 23 at 02:00 PM

Assigned to All Students in Foldscope-Pilot

Template attached

Surgical Masks: Fighting the COVID 19 Virus

Today you will take two different surgical masks from family members that were used during the lockdown for protection against COVID 19 virus.

It has been dif cult nding and purchasing masks for regular usage inside the home, as well as outside premises. To protect the COVID 19 disease many families are use handkerchiefs, soft clothes (bandanas, clothes, cotton fabrics, etc) to make their own masks.

Step # 1At the end of the day take one mask and swab the side that faces the mouth with a Q-Tip. Step # 2 Next, take a clean glass slide and swap the Q-Tip on the center of the slide and place a cover slide over it.

Step # 3 Set the prepared slide aside.

Step 3 4 Repeat all 3 steps with the other Q-Tip.

What did you discover? Which mask contained the most

bacteria. Why do you think this happened? Share your ndings

Materials Needed:

2 glass slides

2 slide covers

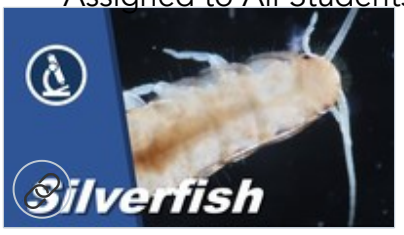
2 Q-Tips

Challenge:Earth Day is Wednesday. Take a recycled piece of material or fabric and create your own COVID19 mask.

0 Responses, 0 Waiting for Approval, 0 Drafts, 0 Not Responded Add Response

Assigned on Apr 21 at 07:33 PM

Assigned to All Students in Foldscope-Pilot



Observe with your microscope an ant, fruit y, or gn…

Materials Needed:

insect

water

slide slide

cover

pipette

* Take your slide and place a drop of water on it with your pipette

* Place the insect on top of the water

* Place the cover slide on the insect

* Place the slide in your foldscope and view your insect

* Draw and label the life cycle of your insect

0 Responses, 0 Waiting for Approval, 0 Drafts, 0 Not Responded Add Response

Assigned on Apr 17 at 06:48 PM

Assigned to All Students in Foldscope-Pilot

Hair Slide: Differentiate inherited traits between your...

Materials Needed:
human hair
2 slides
2 cover slides

* Collet samples of hair from your head and that of one of your parents
* Place one hair from each sample on a slide and use the cover slide to seal the slide
* View each of the slides one at a time with your microscope.
* Write down your observations about each to see how your hair is different or like one of your parents.
* What other inherited traits did you inherit.
* Test the hair of your other parent to see what inherited traits you inherited from that parent.
* You can also look at threads or bers from furniture, clothing, or rugs from around your house.

0 Responses, 0 Waiting for Approval, 0 Drafts, 0 Not Responded Add Response

Assigned on Apr 17 at 06:31 PM

Assigned to All Students in Foldscope-Pilot

Leaf Cell: Investigate how the structures and functio...

Materials Needed:
leaf from a plant or tree (use one without many holes)
water
pipette
glass slide
slide cover
Write an acrostic poem with the word leaf or be creative an write the poem using the name of the plant leaf or tree.
Example:
Red petals ying with the wind

Opens during the spring time
Sweet
Even at night you're dancing in the moon light

0 Responses, 0 Waiting for Approval, 0 Drafts, 0 Not Responded

Add Response

Assigned on Apr 17 at 04:35 PM

Assigned to All Students in Foldscope-Pilot