Habitats at Home

ECCL Cadre

Ongoing Notes

Manifesto
This group will focus on helping teachers create and support home-based environmental science investigations, using available materials.

Meeting Logistics
Recurring day: Sunday Recurring time: 3 pm Next Meeting: Sunday, August 9, 2020 3 pm

Cadre Members

Member	Email	School/Organization	Grade	Subject
Kate Gallagher	kate.gal56@gmail.com	n/a	K-5	Science
Lil Milagro Henriquez	lilmilagro@myceliumyouth.org	Mycelium Youth Network	K-12	STEM

Notes Log

Date	Summary
June 4, 2020	We shared about our hopes for the group and ways we tap into the work of existing organizations and projects.
June 15, 2020	We chose a particular project, about pollinators, and started to sketch out what that might look like if we implement the lessons online for the first few months. We focused on equity and SEL, because teachers will be trying to build a community with their new students at a time when the students and teachers will not be able to meet in person, talk at recess and lunch, etc.
July 1, 2020	No meeting - Kate needed to reschedule (also, Kate couldn't figure out how to join the meeting).
July 20, 2020	Members couldn't meet - rescheduled to 7/27/20
July 27, 2020	
October 6, 2020	

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Date:	October 6, 2020
Present:	Kate Gallagher, Sarah Pipping

Agenda:

Discuss potentials for moving cadre forward.

Notes:

Goals for Habitat@Home:

- "We are observers of our neighborhood"
- Personal purpose and connection with the data
- Studies go deep into one area while observing over time
- Feel @home in their habitat
- "You want to be accurate because you're learning about your place"

How might Habitats@Home build off of FOSS Outdoor Lessons?

Also have...

- SEP 4 Discussion Guide
    - For teachers:
    - For students: Students sharing notebooking and metacognitive strategies, protocol for sharing and thinking through data collection
- Visiting Scientists
- Related community scientist project
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- Methods and practices over content

The Work: One Habits@Home lesson per grade K-5, grounded in FOSS Outdoors for Life Science.

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Date:	July 27, 2020
Present:	Kate Gallagher, Juli Ward, Kim Plagenza

Agenda:

1. Introductions
2. Icebreaker: What natural summertime phenomenon have you noticed in your yard or neighborhood?
3. Check-in about preparations for the start of the school year, and the role of science in those preparations
4. Visions for Habitats at Home that include:
    a. Ease of teacher use
    b. Availability to teachers (where will the lessons live online?
    c. Asynchronous and synchronous elements
    d. Connections to grade-level standards
    e. Opportunities for students to share information
    f. Opportunities for students to collaborate on investigations they create
5. Format for lessons
6. Next Steps
7. Next Meeting: Set up a recurring meeting time and day?

Notes:

Plans for science teaching when school starts on August 10th

Kim, ACORN Woodland: Physical Science
Creating lessons on her own using FOSS
Doesn't know the time frame for science this fall - last spring it was 15-20 minutes within a Zoom meeting with the regular teacher.

Juli, Chabot: Earth Science
Last spring it was 30 minutes for each grade level.
Science as an academic subject vs. enrichment
Textbooks need to go home. The eBook isn't enough.
Focus on "how do we think like scientists and act like scientists?"

Elizabeth: Grass Valley: Haven't talked about what science will look like. They will start with Physical Science. No kits of materials will be sent home.
First two weeks -meetings with families - so science activities could be recommended as part of those meetings
mid-August students will have computers distributed
3rd and 4th grades

Send parents lists of materials in advance - mark off the things they don't have - and those are the things that the district or school should provide.

Google form survey to find out what families have and what they need.

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Create a K-5 guide for observing in your neighborhood or yard.
John Muir Laws
3-2-1
Physical Science - Mixtures and Solutions, soil as a mixture
A regular teacher would do something different than what we are going to do

2nd grade -

Elizabeth - creates a Google classroom where we can be co-teachers

Date:	June 15, 2020
Present:	Kate Gallagher, Elizabeth Cooke, Juli Ward

Notes

What kinds of projects have we done in person, that we think could be good projects for Habitats at Home?
How were teachers using online platforms this spring, and which ones would lend themselves to this work?
Which online platforms are most accessible to students and most flexible for teachers?

Possible Platforms:
Zoom
Google Classroom: 3rd - 5th
SeeSaw App: more user-friendly for younger grades TK-2
Google Hangouts

Equity for all students if they won't be at school this fall
Not everyone's neighborhood has easy access to outdoor areas where students can go to see pollinators and plants
What parks are nearby - within walking distance - safe (partnership with City of Oakland to clean up parks)

What resources are available for free? Seeds? Caterpillars? Plants?
Repurposing containers - school milk cartons, etc.
Quality soil
SMART Center supplies? From old kits?

Virtual Field Trips? Who already has these - botanical garden etc.?
Students and teachers could make their own virtual field trips - Martin Luther King Regional Shoreline

Kate: make a shared document in Google

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Elizabeth Cooke will be teaching a 3rd/4th grade combination class in the fall
Juli Ward will be teaching K-5 science

Pollinator Project
Can connect with 3rd - 5th science
One part of it can be an open-ended, season-by-season data collection of observations in the neighborhoods and parks - what plants are growing now? Which plants are dying? Which ones are making seeds?

Adopt A Spot
Test gardens in the parks - host plants and nectar plants

Ways for students to share data - check out ECCL folder, San Mateo info (icons, templates)
Once a week, in their Google Classroom, students are ready to report on one particular area
Observation Date and Time of Day
Observation Location (Google Maps)
Particular species observed: Description, number of individuals, etc
Pollinator Project Ideas
Journey North - Mexico Migration Project
Hand pollination - EEI
Engineering a hand-pollinator
Practice writing for real world stuff

Equity and SEL: How can we build community at the beginning of the school year when we aren't seeing children in person?
How can we make a connection to something bigger than just our neighborhood?

<u>Pollinator Project Lesson 1:</u>
What do we know about butterflies? What do we want to know? Draw yourself as a butterfly. Deeper meanings of butterflies in different cultures.

Date:	June 4, 2020
Present:	Kate, Lil, Sarah
Notes	

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Organizations Discussed/Mentioned:

- We Lead Ours
- Land Potential - citizen science, apps for land/soil/vegetation data

Project we want to work on:

- OUSD-wide citizen/community science project
    - City of Oakland Forestry Plan?
- Transforming Oakland Parks into environmental learning centers…!?
- Developing lessons for exploring nature/environmental topics at home
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