

GLOBE Mission Earth July PD Workshop Agenda

Professional Growth Goal:

- Introductions to GLOBE Mission Earth (new teachers); Survey GLOBE Mission Earth/My NASA Data Resources for in person and remote learning; Survey & use remote learning resources presented by our GME teachers; complete & present a GLOBE Project during this weeklong PD.

Agenda (Monday continues on next page):

2020 BU GME Summer Teacher Institute

[Monday – July 20, 2020](#)

[JOIN Our GOOGLE Classroom with the code: 44plsjm](#)

TIME	TOPIC	PRESENTER	DESCRIPTION	NOTES
8:30 - 9:00 Kathleen	Group 1: Elementary Teachers Meet at Mashapaug Pond Welcome & Introductions Goals & Expectations	Meet at Parks and Recreation Field House on Mashapaug Pond (use the hotlink for directions)	Welcome participants and have each person introduce oneself. Set the stage for Atmosphere measurements & Water testing.	Teachers have done e-Training, downloaded GLOBE Observer app on device.
9:00 –10:30 Kathleen Caleb (by 9:15)	Group 1: Elementary Teachers Atmosphere (Clouds, Air Temperature, Surface Temperature, Aerosols) Hydrology (Testing Water Quality)	BU GLOBE Mission Earth (GME) Team	<ol style="list-style-type: none"> 1. Do Clouds Observation via GLOBE Observer App. 2. Collect Air and Surface Temperature Data. Record Data on Data Sheets. 3. Collect and Test Water Samples in the Field. Record Data on Data Sheets. 4. Examine Aerosol Catchers. Record Data on Data Sheets. 	Group 2 Teachers: use the 8:30-10:30 block to complete Hydrology Trainings : <ol style="list-style-type: none"> 1. Introduction to Hydrosphere 2. Water pH
10:30 - 11:00 Kathleen Caleb	Group 2: MS/HS Teachers Welcome & Introductions Goals & Expectations	Meet at Parks and Recreation Field House on Mashapaug Pond (use the hotlink for directions)	Welcome participants and have each person introduce oneself. Set the stage for Atmosphere measurements & Water testing.	Teachers have done e-Training, downloaded app on device.
11:00- 12:30 Kathleen Caleb	Group 2: MS/HS Teachers Atmosphere (Clouds, Air Temperature, Surface Temperature, Aerosols) Hydrology (Testing Water Quality)	BU GLOBE Mission Earth (GME) Team	<ol style="list-style-type: none"> 1. Do Clouds Observation via GLOBE Observer App. 2. Collect Air and Surface Temperature Data. Record Data on Data Sheets. 3. Collect and Test Water Samples in the Field. Record Data on Data Sheets. 	Group 1 Teachers: use the 10:30-12:30 block to complete Hydrology Trainings : <ol style="list-style-type: none"> 3. Introduction to Hydrosphere 4. Water pH

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			4. Examine Aerosol Catchers. Record Data on Data Sheets.	
12:30	Return to homes (GLOBE Team to District Office)			
1:00-2:00	Working lunch and get ready to Zoom conference BU GME Team	Surveys and Reflections to Be Completed: Complete Needs Assessment		
Zoom 2:00-2:30 Kathleen Caleb Melissa	Welcome & Introductions to GLOBE PD this week	BU GME Team	General introductions to GLOBE ME	
2:30-3:00 Kathleen Caleb Melissa	Introduction to YOUR GLOBE ME Project this week Gallery Walk (past projects Providence & elsewhere)	BU GME Team	View sample classroom project, discuss projects with quarterly standards, discuss requirements for THIS WEEK'S Project (Due Friday)	
3:00-3:50 Kathleen Melissa	Planning a Project to complete this week	Break out rooms by grade level or topic (find during meeting)	Brainstorm a short project you can complete this week based on data collected and your standards	Have Data from morning YOU DO NOT NEED TO USE ALL OF YOUR DATA
3:50-4:00 Kathleen	Surveys and Reflections to Be Completed: Complete End of Day Reflection			
	HOMEWORK: setting up your GME Data Entry Site			

GLOBE Mission Earth July PD Workshop Agenda

Tuesday – July 21, 2020

TIME	TOPIC	PRESENTER	DESCRIPTION	PREREQUISITE
Informal Q&A 8:30 - 9:00 Kathleen	Welcome	BU GME Team	Answer any teacher questions.	
Starting time 9:00 – 10:00 Kathleen Caleb Melissa	My NASA Data for All	Elizabeth Joyner	Tour My NASA Data & Data Literacy Resources and applications Handout (Resources shared by Elizabeth & Angie)	
10:00-11:00 Kathleen Caleb	Breakout rooms by grade	GME Teachers with GLOBE members in Zoom breakout rooms (Elizabeth with MS/HS)	Discuss preliminary ideas on how you would use resources presented today in your classroom Map Projection Resources	Teachers will use group work assignment in Google Classroom to record preliminary plans.
11:00-12:00	Midday Break - Take your Atmosphere/Hydrosphere observations now and enter data. Water Quality Test Strip Key			
12:00-1:30 Kathleen Caleb	Using My NASA Data In My Classroom	HOMEWORK (1-2hrs of work) with My NASA Data Team available for breakout rooms and BU Team	Independent or group work: Feedback on My NASA Data and your Classroom Teachers review at least 2 grade appropriate My NASA Data resources they would want to use in their classroom, create “presentation” on what works as is & how (1slide/pg), what could work with modifications (1 slide/pg), what may not work & why (1 slide/pg). Include Diversity, Equity, Inclusion, and Accessibility hits and misses. (Use Google Slides or Google Docs)	
2:00-4:00 Kathleen Caleb (until 3:15) Melissa	Using My NASA Data In My Classroom	HOMEWORK (1-2hrs of work) with BU Team	Independent or group work: Feedback on My NASA Data and your Classroom <i>Teachers continue to</i> review at least 2 grade appropriate My NASA Data resources they would want to use in their classroom, create “presentation” on what works as is & how (1slide/pg), what could work with modifications (1 slide/pg), what may not work & why (1 slide/pg). Include Diversity, Equity, Inclusion, and Accessibility hits and misses. (Use Google Slides or Google Docs)	
Surveys and Reflections to Be Completed: Complete End of Day Reflections				

Wednesday – July 22, 2020

GLOBE Mission Earth July PD Workshop Agenda

TIME	TOPIC	PRESENTER	DESCRIPTION	PREREQUISITE
Informal Q&A 8:30 - 9:00 Kathleen	Welcome	BU GME Team	Answer any teacher questions.	
Starting time 9:00 – 10:30 Caleb Kathleen	Share “Using NASA Resources in My Classroom”	GME Teachers with BU GME and Elizabeth Joyner	Teachers share their “homework” presentations on using MyNASA Data	Complete homework
10:30-11:00 Caleb Kathleen	Collaborative discussion about MyNASA Data Resources	Elizabeth Joyner, BU GME, and GME Teachers	Bringing the presentations together to understand what MND resources teachers want to use and how GME can support this (materials, trainings, modifications, SME connections)	
11:00-1:00	Mid-Day Break - If you are doing atmosphere, do cloud observations during this time. If you are doing hydrology, collect your second sample today (outside, tap, fish tank) Water Quality Test Strip Key			
1:00-3:00 Caleb Kathleen	Navigating GLOBE website GLOBE Data Entry	Peter and Don	Teachers create their school site on GLOBE. Enter Data and Visualize entered data on GLOBE	Review setting up site (teachers should pre-set up sites at home using Walkthrough). Caution: don't run through too much. Have tutorial for atmosphere.
3:00-3:50 Kathleen	GLOBE at Home for remote learning	Kathleen	Resources by quarter and by grade (PDF and video) and apps GLOBE for remote/indoor learning Modifications of outdoor activities for use in remote/indoor learning. Hands-on water testing Eyes-on Cloud Observations Computer-based temperature (Davis WeatherLink, My NASA Data, NOAA Science on a Sphere on smartphone)	Teachers should have downloaded GLOBE Observer and GLOBE Data Entry on their phones. Teachers need to be on the Google Classroom to access resources Teachers need to pre-sign up for Davis WeatherLink; Teachers should have cups of water and water test strips handy.
3:50-4:00	Surveys and Reflections to Be Completed: Complete End of Day Reflections			

Thursday – July 23, 2020

TIME	TOPIC	PRESENTER	DESCRIPTION	PREREQUISITE
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<p>Informal Q&A 8:30 - 9:00 Kathleen</p>	<p>Welcome</p>	<p>BU GME Team</p>	<p>Answer any teacher questions.</p>	
<p>Starting time 9:00 – 10:00 Caleb Melissa Kathleen</p>	<p>Teachers Share Remote Learning Resources (SeeSaw, Book Creator, Edpuzzle, Nearpod, Peardeck)</p>	<p>GME Teachers Rosanna - SeeSaw Tera - Book Creator Melissa - Kathleen - Edpuzzle</p>	<p>GME Teachers will share some of their favorite online resources for remote/classroom teaching</p>	<p>Join each of these platforms.</p>
<p>10:00-11:00 Caleb Melissa Kathleen</p>	<p>Using Remote and In Class Resources and Apps for GLOBE ME Projects</p>	<p>GME Team In Breakout rooms</p>	<p>Talk about how you might use some of the Resources and apps we've learned about so far to collect, analyze, and share data</p>	
<p>11:00</p>	<p>Lunch</p> <p>Surveys and Reflections to Be Completed: STEBI</p>			
<p>12:00-3:50 Kathleen Caleb (until 3:15) Melissa (after 2:00)</p>	<p>HOMEWORK: Work on Project Presentations</p> <p>One on One Post-PD Interviews via Zoom in Breakout rooms</p>			
<p>3:50-4:00</p>	<p>Surveys and Reflections to Be Completed: Complete End of Day Reflection</p>			

GLOBE Mission Earth July PD Workshop Agenda
2020 BU GME Summer Teacher Institute
Friday – July 24, 2020

TIME	TOPIC	PRESENTER	DESCRIPTION	PREREQUISITE
9:9:15	Talk about the plan for today			
9:15 – 10:00 Caleb Kathleen Melissa (until 11)	Map Readiness Activities			
10:00-12:00	HOMEWORK: Finish Project Presentations		Post Presentation in Google Classroom	Presentation Template:
12:00-1:00 Working Lunch Caleb Melissa Kathleen	Community Lunch Talk - Some topics ● Planning for GME Support in the coming year			
1:00-3:50 Kathleen Caleb (until 3:15) Melissa	Gallery Walk of Projects - 5 minute presentations of your projects (up to 10 min for group projects)		Each Person will evaluate 2 posters (poster evaluations will be randomly assigned in Google Classroom)	
3:50-4:00	Surveys and Reflections to Be Completed: 1. Complete End of Day Reflection 2. Post-PD Survey			