

2019 STEM Exploration Camp

July 15 – 20, 2019

Build the Next Generation of STEM Leaders

Day 1 (Monday, July 15) – STEM Shark Tank			Details (Leads: TBD)
8:30am – 9:30am (60min)	Check-In & Breakfast	ALL	<ul style="list-style-type: none"> Check-In & Breakfast
9:30am – 9:40am (10min)	Welcome, Introductions & Agenda Overview	Adamaka & Self-eSTEM Team	<ul style="list-style-type: none"> Welcome & Introductions (in cafeteria area) Camp Theme: Collaboration Announce STEM Star of the Day and Women Entrepreneur Fun Facts
9:40am – 10:00am (20min)	Ice Breaker(s)	Shalonda	<ul style="list-style-type: none"> Ice Breaker: 4 Corners
10:00am-10:10am (10min)	Shark Tank (Optional, if we have time)	Shalonda	<ul style="list-style-type: none"> Show the girls the at least 5 minutes of the Shark Tank Volunteers: Make sure girls are paying attention to the clip
10:10am-10:20am (10min)	Explain Project Requirements & Q&A	Shalonda/ Adamaka	<ul style="list-style-type: none"> Day 1 Outcome: Research complete and at least 2-3 slides. If not, we will need an outline of your plans.
10:20am-10:35am (15min)	Split girls into groups by role interest and pick topics	Shalonda	<ul style="list-style-type: none"> Split the girls by interest in role. Roles will be based on client requirements <ul style="list-style-type: none"> Scientist: good researcher; good at surfing the internet and present findings Technologist: tech savvy, good with Google Slide and Google sheets Engineer: artist and graphic designer, will likely design logo Mathematician: math guru (good with numbers)

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			<ul style="list-style-type: none"> ● STEMinist: leader, good at conflict resolution, floater/Jill of all trades, good at presenting
10:35am – 10:40am (5min)	Transition to Workshop	Groups/All	<ul style="list-style-type: none"> ● Make sure everyone knows where to go
			Details
10:40am-11:00am (20min)	Tools and Software Overview	Adamaka/Gervetti	<ul style="list-style-type: none"> ● Provide tutorials on how to create some of the items (Google slide animation, graphs, logo design, colors, shapes, images, enter data, word font etc.). Demo a completed slide deck before launching the tutorial. ● Provide description tools if needed and ask some girls to come up and demo to make it interactive.
11:00am- 12:00pm (60min)	Working Session	Groups/All	<ul style="list-style-type: none"> ● Work on research and completed project requirements. ● Volunteers help with project research, creating graphs/charts, powerpoint design and logo.
12:00pm- 1:00pm	Lunch - Lead MFSC (Start cleaning up at 12:45pm)		
1:00pm-1:10pm (10min)	Project Share Out	Shalonda	<ul style="list-style-type: none"> ● Checkpoint: Ask a few girls what have they discovered in their research and/or what new skills/tools have they learned.
1:10pm-3:10pm (2hr)	Working Session	Groups/All	<ul style="list-style-type: none"> ● Continue working on projects. At this point most of the research should be complete.
3:10-3:25pm (15min)	Closeout	Adamaka/All	<ul style="list-style-type: none"> ● Clean-up ● Shout Outs - STEM Star of the Day ● Women Entrepreneur Fun Fact ● Announcements

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Day 2 (Tuesday, July 16) - STEM Shark Tank Continued/3D Printing			Details (Leads: TBD)
8:30am – 9:00am (30min)	Check-In & Breakfast	Groups/All	<ul style="list-style-type: none"> Check-In & Breakfast
9:00am – 9:10am (10 min)	Overview & Framing of Day	Adamaka	<ul style="list-style-type: none"> Day 2 Outcome: Completed pitch deck and prototype of product. Begin practicing your pitch presentation for the judges.
			Details
9:10 am – 10:40 am (1hr 30min)	Pitch Deck Working Session	Groups/All	<ul style="list-style-type: none"> Continue to finalize deck Volunteers float around and assist Early Finishers: may use the clay to begin molding your design
10:40-11:00 (20min)	Project Share Out (optional)	Shalonda	<ul style="list-style-type: none"> Checkpoint: Ask a few girls what have they discovered in their research and/or what new skills/tools have they learned.
11:10-11:20 (10min)	Snack Break (optional)	Alanna	<ul style="list-style-type: none"> Bathroom, water, snack break Volunteers to make sure girls come back from break on time, throw away trash, etc.
11:20-12:00 (40min)	Wrap Project	Groups/All	<ul style="list-style-type: none"> Complete final elements on pitch deck and project
12:00pm – 12:30pm	LUNCH- Lead by Alanna and MFSC		MFSC
12:30pm – 3:15pm (2hrs & 45min)	3D Modeling and Printing of Prototypes	Erica & Andrew	<ul style="list-style-type: none"> Will provide a lesson plan on 3D modeling using TinkerCAD to modeling out prototype. Students will learn how to use the software. Workshop will include an introduction to

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			<p>Codeblocks, block coding functionality to render 3D models.</p> <ul style="list-style-type: none"> • If there are people who are finished early, we will begin to print prototypes
3:15-3:25pm (10 min)	Closeout	Adamaka/All	<ul style="list-style-type: none"> • Clean-up • Shout Outs - STEM Star of the Day • Women Entrepreneur Fun Fact • Announcements

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Day 3 (Wednesday, July 17) – 3D Printing/Modeling			Descriptions/Details (Leads: TBD)
8:30am – 9:00am (30min)	Check-In & Breakfast	Groups/All	<ul style="list-style-type: none"> • Check-In & Breakfast
9:00am-9:10am (10min)	Overview and Framing of the Day	Shalonda	<ul style="list-style-type: none"> • Day 3 Outcome: completed pitch deck, finalize prototypes design, 3D modeling of prototype and 3D print prototype
9:10am-2:50pm (1hr & 30min)	Working Session: Complete Project	Groups/All	<ul style="list-style-type: none"> • Working to complete project (all element stated above) and practice pitch deck • Volunteers will float around and help • Ensure workshops lead are aware of time
2:50pm-3:00pm (10min)	Closeout	Adamaka	<ul style="list-style-type: none"> • Clean-up • Shout Outs - STEM Star of the Day • Women Entrepreneur Fun Fact • Announcements

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Day 4 (Thursday, July 20) – Exploratorium			Descriptions/Details (Leads: Adamaka & Alanna)
8:30am – 9:00am	Meet at School and take bus to Exploratorium		
9:00am – 10:00am	Travel to Exploratorium	Alanna & Shalonda	<ul style="list-style-type: none"> Will break-up into groups and explore
10:00am – 12:00pm	Exploratorium		<ul style="list-style-type: none"> Will break-up into groups and explore
12:00pm – 1:00pm	LUNCH		Lunch will be provided
1:00pm – 2:30pm	Self-eSTEMing at Pier 15	Group Leads	<ul style="list-style-type: none"> Scavenger hunt Printouts of the STEM scavenger list items will be provided.
2:30pm – 3:30pm	Travel to Back	Groups/ALL	<ul style="list-style-type: none"> Meet back at Exploratorium and travel to West Oakland Bart

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Day 5 (Friday, July 20) – Science Carnival			Descriptions/Details (Leads: Shalonda/Adamaka)
8:00am – 9:00am	Check-In and Breakfast		
9:00am-9:10am (10min)	Overview of the Day	Adamaka	<ul style="list-style-type: none"> Provide any additional fun facts that may have been missed. It is okay to provide facts before the game to allow some participants to get some questions right.
9:10am-9:40am (30min)	Kahoot Trivia Game: Women Entrepreneurs	Alanna	<ul style="list-style-type: none"> Questions will be created based on what the girls have learned so far from the fun facts throughout the week. Pull up Kahoot.it game on screen.
9:40am-10:00am (20min)	Clean-up & Snack break	Alanna	<ul style="list-style-type: none"> Everything must be put away before snacks are passed out
10:00am-11:00am	Pitch Deck Presentation	Groups/All	<ul style="list-style-type: none"> Participants will deliver pitch deck to judges.
11:00am-12:00pm	Science Carnival Setup	Shalonda	<ul style="list-style-type: none"> Volunteers/participants/guests will collaborate to help set up for Science Carnival
12:00pm-1:00pm	LUNCH - BBQ		MFS Catering
12:30pm-2:45pm (2hrs & 15min)	Science Carnival		<ul style="list-style-type: none"> Post Camp survey station Snow Cone Cotton Candy Machine Music Playing Button Maker Large Jenga Selfie Station (Adamaka)

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			<ul style="list-style-type: none"> ● Slime Station ● Cupcake Walk ● Arts & Crafts Station ● Edible Molecules ● Slime Station ● Blocky Station ● Scientific Adventures for Girls Station #1 ● Scientific Adventures for Girls Station #2 ● Scientific Adventures for Girls Station #3 ● Jumper ● Face Paint ● Lava Lamps
<p>2:45pm-3:30pm (45min)</p>	<p>Clean Up</p>	<p>Groups/All</p>	

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Day 6 (July 20) – Closeout Celebration			Descriptions/Details (Lead: Gervetti)
9:30am – 11:00am	Setup		
11:00am – 11:10am	Welcome & Introductions	Executive Board	
11:10am – 11:15am	STEM Exploration Camp Social Media Slide Show	Adamaka (optional)	
11:15am – 11:30am	Participants Presentation of Workshop Outcomes	Alanna, Gervetti, and Shalonda	
11:30am – 11:50am	Guest Speaker: The Importance of Diversity & Inclusion in STEM	{Pending}	
11:50am – 12:30pm	Lunch Continued	Shalonda	
	Certificate & Award Ceremony	Gervetti	
11:50am – 12:30pm	Lunch	MFS Catering	
12:30pm – 12:55pm	Lunch Continued	Shalonda	

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	Certificate & Award Ceremony	Gervetti	
12:55pm – 1:00pm	Raffle & Close Out Remarks	Alanna Adamaka	