SignUpGenius

Monterey County 4-H

Mars Basecamp 4-H STEM Challenge

Location: Google Meet

Date: 10/24/2020 (Saturday, 11:00 AM - 1:30 PM EST)

Created By: Amy Brown

Date is in mm/dd/yyyy.

Available Slot			
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A Science Adventure Activity brought to you by the Buena Vista 4-H STEM Committee

Open to all Monterey County 4-H members
October 24th, 2020, 11-1:30pm thru Google Meets

This year, members will learn about the surface of Mars, build a rover to explore the surface of the planet, create a catapult to launch a satellite, code a message to send back home. The virtual activities will be run by experienced adult volunteers and members. You will need a laptop with camera and internet. Materials will be provided.

Sign ups are limited to 20 participants. Complete by 10/15/20
https://www.signupgenius.com/go/30e094aabaf2ea4ff2-mars

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STEM Event Agenda for 10/24/20:
11am Log onto Google meets
11:10 am – 12 Build and engineer a Rover to explore the surface of Mars. Can your Rover follow the path design?
12:45 – 1:30pm Build a catapult to launch a satellite

Did you know: Mars is the fourth planet from the Sun and the second-smallest planet in the Solar System, being only larger than Mercury. In English, Mars carries the name of the Roman god of war and is often referred to as the "Red Planet"

Continue your STEM learning from this event with a follow up of a "Scratch Coding" activity. Complete this second STEM activity on your own by 10/31 and earn a prize from the Committee! The instructions will be presented at this live, virtual event.

Mars Base Camp 4-H STEM Challenge

Brought to you by the Buena Vista Stem Committee
Committee Chair: Mackenzie Keslin and Henry Brown
Committee Members: Aiden Ishimaru, Cole Ishimary, Signey Ishimaru, Matthew Flores, Jorge Flores
Adult Advisors: Amy Brown and Kalah Ishimaru

STEM = Science, Technology, Engineering and Math

We will be exploring Mars and utilizing STEM to do so!

Post Live Event Technology Challenge-Due Oct 31st, 2020: Insight From Mars: Coding Challenge

When astronauts travel to space, they communicate every day with mission control about what they see and what they learn. This is your opportunity to imagine that you are the first human explorer on Mars. Think about the things you might discover and the questions your friends or family might ask about your mission.

Code your discovery in Scratch and share your animated story about something exciting you have discovered on the surface of Mars!

Example Project

*Instructions given at Live Meeting (Google Meet)" (Jorge). Participants follow links/Guide cards to create their animated story with the Scratch program. Participants who submit a Scratch story to amylobrown@gmail.com by 10/31 will receive a prize!

Live Google Meet* Engineering Event-Saturday, October 24th-Mars
People Sign up via Sign Up Genius. Kits picked up prior to Live Event

Youth members will be leading the Google Meet.

1. 11AM-12:00 PM? Learn about Mars and Build/Engineer a Catapult (Kalah, will you add link to instructions here?) Math and Science Tie In-Collect data-distance from target (cm). Three Trials, and an average)

2. 12:00-12:45-Break/Lunch (Astronaut Food Provided-Trail Mix, Tortilla Wrap, Freeze Dried Ice Cream, Apple Sauce Pouch-Play Footage of Mars

3. 12:45PM -1:30 PM Build and Engineer a Rover-Will your Rover travel the path to your location?

Tasks:
   1. Flyer Design (Mackenzie Keslin)-Complete
   2. Door Prize Ideas (Mackenzie Keslin)
   3. Lead "Mars Info" and Introductions-(Matthew Flores and Mackenzie Keslin)
   4. Catapult Challenge Lead (Ishimaru Family)
   5. 30 minute Mars Footage Video-(Ishimaru Family)
   6. Rover Challenge Lead (Henry Brown)
   7. Build kits for Live Event (Mrs. Brown)
   8. Share and explain Scratch Code (Jorge Flores)
   9. Gather prizes for Scratch submission (Mrs. Brown)

Dress Rehearsal-Thursday, October 22nd at 7pm