



# SPACE FOUNDATION

## Jr. Space Entrepreneur Program

### Daily Schedule for STEM School Highlands Ranch

Jan 13<sup>th</sup> – 17<sup>th</sup>, 2020

#### Terms:

Large Room- room for all 60 students, plus instructors; This will serve as the main room for delivering instructions throughout the week.

Breakout Room- areas for students to meet and work with their smaller teams

Launch Room- area with higher ceilings “gym style” room to launch straw rockets and fly drones

#### Monday 1/13/20

\*\*This is a tentative schedule and maybe subject to change

*Spaces needed: Large Room and Launch Room*

#### 8:00-8:20 Introduction to Students (Large Room)

- Opening statements by Lockheed Martin representative; promo video
- Welcome statements from Space Foundation
- Student team assignments

#### 8:20-9:00 Introduction to Entrepreneurship (Large Room)

- JA Be Entrepreneurial “session 1”

#### 9:00-9:45 Finding the Problem (Large Room)

- JA It’s My Business! “Innovative Ideas”

#### 9:45-10:30 Built for Flight (Large Room)

- Aerodynamics principle for rocket design

#### 10:30-12:00 ABC’s of Rocketry (Launch Room, if available)

- Calculating rocket trajectory

#### 12:00-12:30 LUNCH

#### 12:30-1:15 Improving Communications (Large Room)

- KTNE

#### 1:15-2:00 Plan for Mars (Large Room)

- Trip preparation

#### 2:00-2:30 Business Booklets and Wrap-up (Large Room)

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**Tuesday 1/14/20**

*Spaces needed: Large Room and Launch Room*

**8:00-9:30**     **From Water to Fuel** (*Large Room*)

- Electrolysis device

**9:30-11:15**     **Martian Lander Design** (*Start in Large room and move to Launch Room*)

- Landing on Mars (Map)

**11:15-12:00**     **Drone Flight School** (*Launch Room*)

- Introduction to flight terms
- Drone maneuvering

**12:00-12:30**     **LUNCH**

**12:30-1:15**     **Discovering the Martian Landscape** (*Large Room*)

- Discovering areas of interest on the Martian terrain

**1:15-2:20**     **Mapping the Surface** (*Launch Room*)

- Utilizing drone surveillance to locate areas of interest on the Martian terrain

**2:20-2:30**     **Wrap-up** (*Large Room*)

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## Jr. Space Entrepreneur Program

Wednesday 1/15/20

Day ends at 5:00pm

*Spaces needed: Large Room and Breakout Room*

**8:00-9:00**

**Navigating the Martian Terrain** (*Large Room*)

- Navigating robots to areas of interest

**9:00-10:00**

**Astronaut Training** (*Breakout Room*)

- Conducting a series of test to ensure the best candidate for each team's astronaut

**10:00-12:00**

**Project Mars** (*Large Room & Breakout Room*)

- Collect Martian soil samples for water testing (EVA)
- Study geological findings for presence of water or life
- Engineer a drill to conduct further Mars investigations

**12:00-12:30**

**LUNCH**

**12:30-1:30**

**The Future Martian Settlement** (*Large Room*)

- 3D Designing the best Martian habitat

**1:30-2:30**

**Surviving the Ride-Returning Home** (*Large Room*)

- Engineering a craft to ensure a safe return through the Earth's atmosphere

**2:30-2:45**

**BREAK**

**2:45-3:45**

**Target Customer** (*Large Room*)

- JA It's My Business!
- Market and Need
- Testing the Market

**3:45-4:15**

**Value Propositions** (*Large Room*)

- JA Business Week
- Track 3-Pitch Prep Workshop

**4:15-5:00**

**The Elevator Pitch-Working Dinner** (*Large Room*)

- Present business elevator pitch

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## Jr. Space Entrepreneur Program

Thursday 1/16/20

Day ends at 6:30pm

*Spaces needed: Large Room and Breakout Room*

- 8:00-9:15**     **Building Your Brand** (*Large Room and Breakout Room*)
- Develop the essential pieces to create a brand for a business
  - JA Start It Up, session 3
- 9:15-11:15**     **Commercial Production** (*Large Room and Breakout Room*)
- Create and produce a 3-minute commercial to advertise your business
- 11:15-12:00**     **Financing Your Business** (*Large Room and Breakout Room*)
- JA Creativity at Work, session 4
- 12:00-12:30**             **LUNCH**
- 12:30-1:15**     **Financing Your Business** (*Large Room and Breakout Room*)
- JA Creativity at Work, session 5
- 1:15-2:00**     **Competition Matrix** (*Large Room and Breakout Room*)
- Research existing business that provide a similar service
  - Develop a matrix that shows the similarities and differences
- 2:00-2:30**     **Business Model Canvas** (*Large Room and Breakout Room*)
- Develop a business model around your product/ service
- 2:30-2:45**             **BREAK**
- 2:45-3:30**     **Sustainability** (*Large Room and Breakout Room*)
- JA Be Entrepreneurial, session 6
- 3:30-4:15**     **Help Wanted** (*Large Room and Breakout Room*)
- JA Career Success, session 7
- 4:15-4:45**     **Commercial Viewing Party -Working Dinner** (*Large Room*)
- Watch each team's commercial while enjoying dinner provided by the Space Foundation
- 4:45-5:45**     **Help Wanted** (*Large Room*)
- JA Personal Success, session 8
- 5:45-6:30**     **The Pitch** (*Large Room*)

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Friday 1/17/20

*Spaces needed: Large Room and Breakout Room*

**8:00-9:00 Pitch Perfect**

- JA Business Week Presentation Skills Workshop

**9:00-12:00 Preparing the Presentation** (*Large Room and Breakout Room*)

- Participants will work to complete any reminding pieces to their final pitches

**12:00-12:30 LUNCH**

**12:30-2:00 Final Presentations** (*Large Room – front row table for investors*)

- 7 minutes per presentation
- 3 minutes for follow-up questions and remarks from investors

**2:00-2:30 Presentation of Winners & Wrap-up** (*Large Room*)

- Presentation of top performing groups

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