

**Moon Base**

**One-Page Information Sheet**

**2023-2024**

**LEVEL:** Middle School (MS) & High School (HS)

**DIVISION(S):** Grades 6 and 7/8 & Grades 9/10 and 11/12

**CHANGES MADE:**

* We specified two openings, instead of doorways, as the cuts can be made anywhere on the structure.
* We expanded the kinds of paint that can be used for testing/judging. Check with your local Center to see what they will be using.
* The Engineering Lab Book is now worth 25% of the final score. If teams fail to submit an Engineering Lab Book, *they will not be eligible to place.*
	+ [Engineering Lab Book Guidelines](https://mesa.ucop.edu/wp-content/uploads/2023/09/MESA-DAY-23-24-Engineering-Lab-Book-Guidelines.pdf)

**VIDEO RESOURCES:**

* **MARS**: [Video Link](https://cole2.uconline.edu/courses/1410210/pages/mesa-moon-base-curriculum?module_item_id=93037077)

The Curriculum breaks down the five elements.

* Materials. It breaks down Material Sciences and Engineering.
* Weight of Structure vs Impact
* Understanding Cardboard
* Learning from the Past: Now we have pictures!

Introduction and Overview of the Project

* Activities that will help break down and understand the rules in a way where students and advisors can keep track.
	+ For example, “Finding Key Words Activity” or “Problem Analysis Activity” Provides students a basic understanding of the rules before they get deeper into it.
* **How To Create a Safe Zone Measuring Tool**: [Video Link](https://1drv.ms/v/s%21ArTvLM4a824sh-BNlLNaYqbCGxtO9Q?e=n69tdz)
* **Train the Judge’s Video**: [Video Link](https://www.youtube.com/watch?v=aIJW3Gi7BBY)
* **Live Northern California Judge’s Video**: [Video Link](https://youtu.be/UGIeehtBMYU?si=FDuqCqx-9BWq_uH6)

**GENERAL RESOURCES:**

* MESA Day Q&A Submission: [Link](https://docs.google.com/forms/d/e/1FAIpQLSeJaQuOM6ytgJpnn7HrANZ5W-l2PRL6q9KopCRMbZZzTdBAmA/viewform)
	+ If you have any questions about any MESA Day competitions, use link above.
* MESA Day Q&A Database: [Link](https://docs.google.com/spreadsheets/d/1D47XKl3Kn4on__zbb_Lro9RZPwDyBvUk9MmEz_YgY6Q/edit#gid=533569157)
	+ If you used the MESA Day Q&A Submission link to ask any question about any MESA Day competition, you can use this link to view the answers.