



Grades 9 - 10

Humanity is returning to the moon through NASA’s Artemis program. The Orion capsule, designed and built by Lockheed Martin, will ensure that astronauts are safely ferried to lunar orbit and eventually on to the Red Planet, Mars. As part of the continued improvement of the capsule, Lockheed Martin is searching for a team of subcontractors to assist with upcoming launches. Students take on the role of subcontractor teams vying for this honor. Lessons introduce the concept of data science, then student teams prepare a proposal after trying their hand at analyzing manufacturer data for critical systems like life support, propulsion, radiation protection and heat shielding. In the live session, teams meet with a hiring executive for a second round of interviews, putting their “soft” skills to the test.

DATA ANALYSIS
Students interpret information from real-world data, foundational to practicing the skill of making informed decisions and using facts and statistics to drive decisions.

CAREER CONNECTIONS

- data science
- aviation & aeronautics
- engineering
- communications

SOFT SKILL PRACTICE

- adaptability
- critical thinking
- communication
- grit and learning agility

How does the program work? Challenger provides teacher training and live connection materials. After lessons are completed and proposals compiled, students connect via video conferencing software for a 1 hour and 15 minute live event.

ORION MOONBOUND HIGHLIGHTS

- Highlights math and science
- Teacher training included
- Standards-based lessons
- Easy-to-use technology
- Program materials included
- Digitally delivered to classroom
- 1.25 hour run time
- \$325

