

# NEW VIRTUAL MISSION!

## DESTINATION MOON

Delivered in real-time, online by  
Challenger Learning Center  
Flight Directors

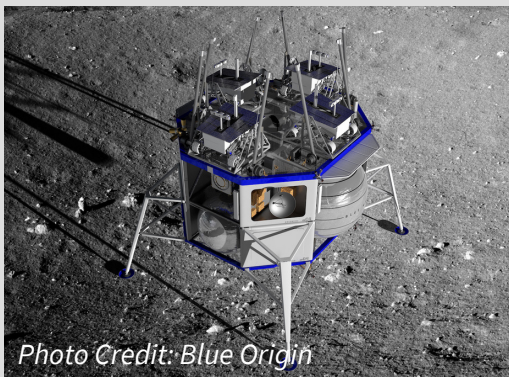
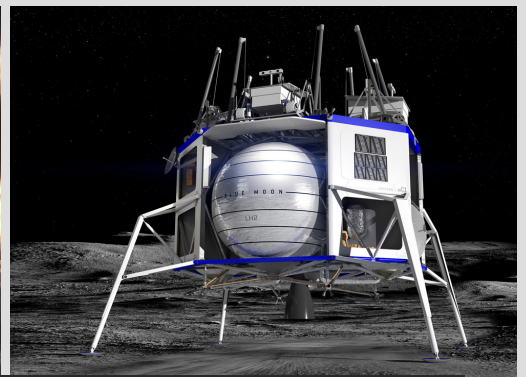


Photo Credit: Blue Origin



The Mission: A team of researchers is ready to return to the Moon to explore its surface and establish a second habitat for astronauts to live and work! To get there, they'll launch and fly Blue Origin's reusable launch vehicle, New Glenn, and explore the Moon's surface using Blue Origin's lunar lander, Blue Moon.

- Designed for grades 7-8 and aligned to national education standards
- 1-hour experience delivered from start to finish by a Flight Director
- Perfect for remote, hybrid, and socially distant classrooms
- Features small group and whole class activities
- Students need a device with audio and video capability and an internet connection
- No handouts or supplies needed



**Schedule a mission for your students! Email [programs@challenger.org](mailto:programs@challenger.org) for more details.**

# Give Your Students a Virtual Space Mission Experience!

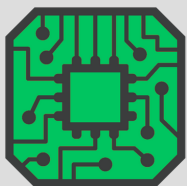
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Student teams in Mission Control have a critical job: initiate the launch of New Glenn into orbit to land Blue Moon safely on the lunar surface. While in orbit, teams monitor for potentially dangerous space weather and space debris, conduct safety checks on the spacecraft systems, deploy and monitor satellites, and launch payloads.

With the journey underway, Mission Control learns there is an oxygen leak at the original lunar habitat that is putting the astronauts at risk. The team in Mission Control will work with the crew already on the Moon to use the given supplies and fix the oxygen leak. Can they repair the leak using the limited supplies they have on their base? Will the crew repair the leak in time before it threatens their safety on the Moon? A successful mission depends on it.



Student Teams: Teamwork is critical to our mission! Each student is assigned to a team and works with their small group to complete their research and analysis.



## Mapping Team

Monitor GPS coordinates, system, and identify potential space debris. Select orbital entry point around the moon.



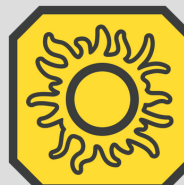
## Structure Team

Conduct systems checks on the satellites. Launch GPS satellites. Conduct spacecraft systems checks.



## Engines Team

Conduct engine systems checks. Monitor engine for fuel and heat. Conduct corrections and spacecraft maneuvers during flight.



## Tracking Team

Monitor solar weather. Determine if payloads need midcourse corrections. Monitor moon space debris to ensure a clear orbital path.

## Ready for Launch?!

- ✓ **Contact us to schedule your mission.**
- ✓ **Tell us how many students and teachers will participate.**
- ✓ **We send you the login information.**
- ✓ **The countdown begins. Leave the rest to us!**



Destination Moon was developed in partnership with Blue Origin and Club for the Future.