

# A MISSION TO MARS

SCIENTISTS PREDICT HUMANS WILL  
ARRIVE ON MARS IN 2030.

WHAT WILL IT TAKE TO GET THERE?  
AND HOW WILL WE SURVIVE  
WHEN WE DO?

Students will work together to overcome the perils of space travel and establish the first human colony on Mars. They must design and construct a space station, engineer a rover, collect and analyze rock samples, and cultivate a hydroponic garden..



Begin by partnering with the ISS to learn surveying techniques by taking pictures from low Earth orbit.



Learn how to navigate by constructing an astrolabe and charting the position of important constellations



Descend to the surface of Mars using a live stream from your rover.



Check the wellness of the astronauts by graphing their heart rates and encouraging students to use mindfulness techniques.



Collaborate with fellow scientists to assess and resolve simulated emergency situations.

Highlights from Grayson's inaugural mission include a visit from **Astronaut Serena Aunon-Chancellor** and a feature on **CBS-3 Philly News**.