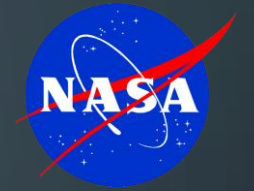


$$E=mc^2$$



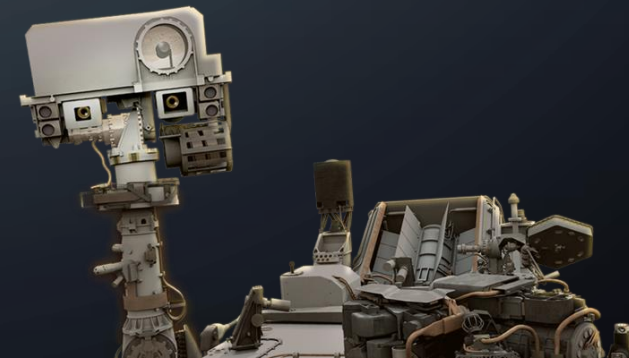
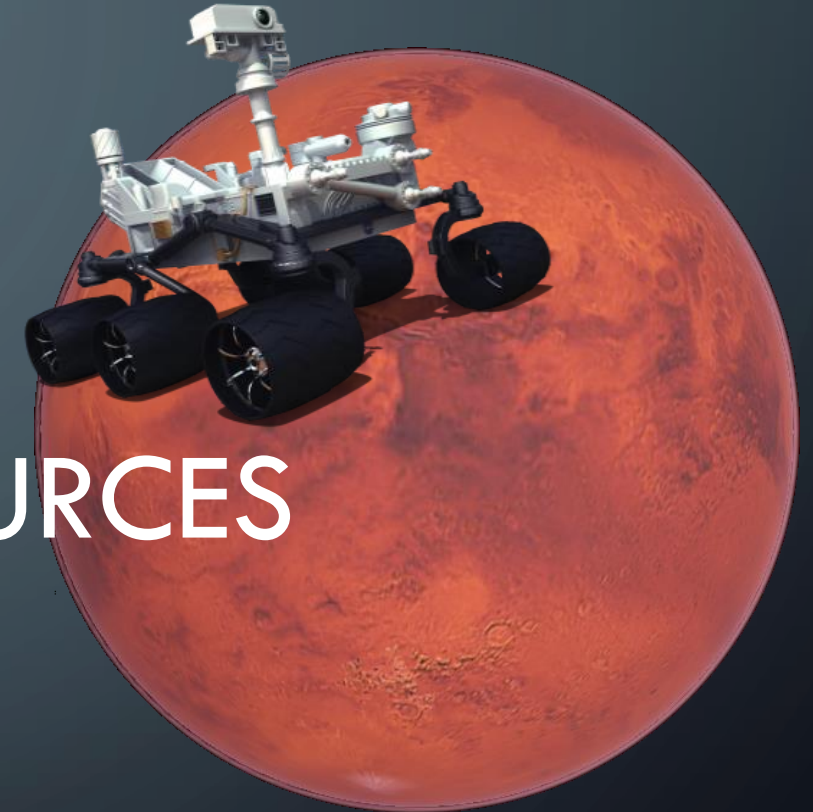
MISSION TO MARS AND NASA EDUCATOR RESOURCES

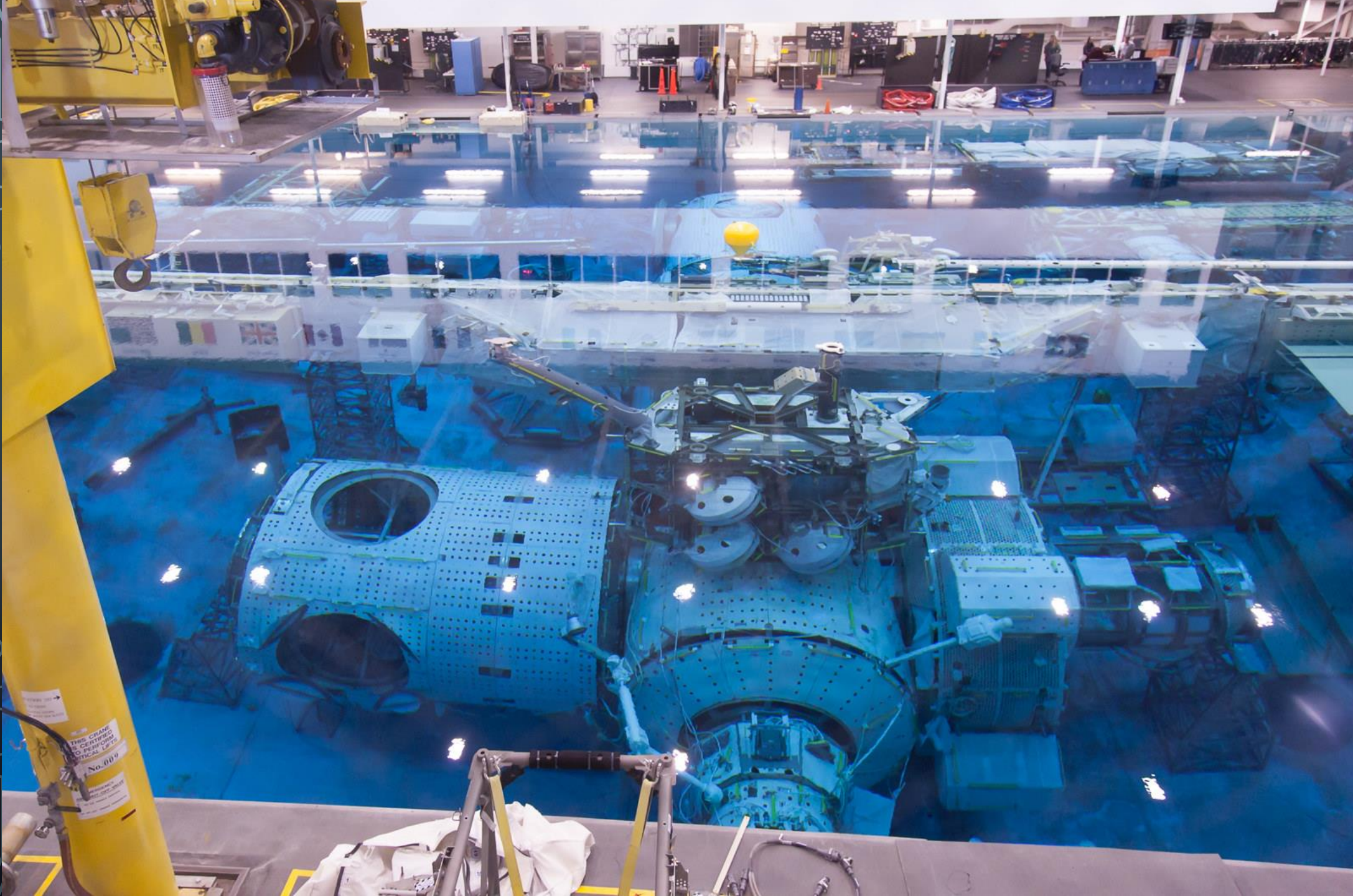
January 15, 2018

Caitlin Nolby (cnolby@space.edu)

Marissa Saad (msaad@space.edu)

North Dakota Space Grant Consortium





SCIGIRLS DEEP SEA DIVER

Season 2, episode 1: *Aquabots*

Challenge: NASA is currently preparing for long-duration spaceflight to Mars and needs to practice procedures in the NBL. They need to select a contractor to design and build neutrally buoyant tools for training.

Make predictions on given materials

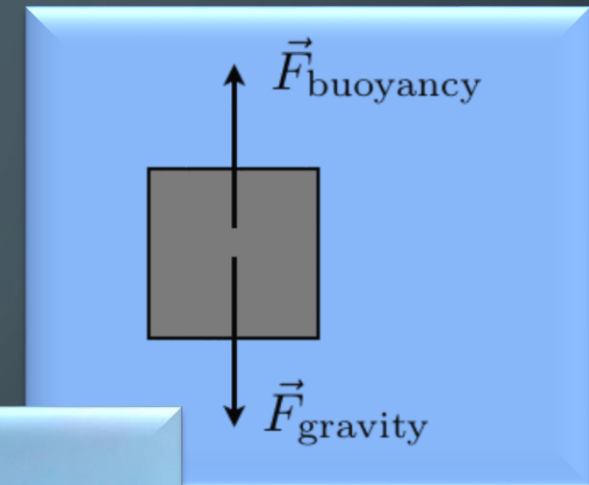
Design your “deep sea diver”

Collaborative Design Review



SCIGIRLS DEEP SEA DIVER

- Objective: Design and Build a Neutrally Buoyant Object
 - What does it mean to be neutrally buoyant?
 - Balancing act between forces
 - Densities are equal
- Which planet would “float” in a giant pool of water?



REFLECTION

- What worked? Materials?
- Other applicaitons?
- Scuba divers
- Submarines
- Fish
- Science! –Taking ocean measurements

