Next Giant Leap: Lunar Rover

Objective:
Students use a tablet-based app to assemble and program a rover to navigate and conduct experiments on the surface of the Moon.

Materials Needed:

- ✓ Tablet
- ✓ Challenger Rover App *(only compatible with tablets)*

Summary of Student Action:
Students will assemble a digital rover according to given specifications. They will then use block coding to program the rover to navigate the surface of the Moon to a designated location. Students will also program the rover to conduct experiments and gather data on the Moon.

Setup Instructions:

- Download the Challenger Rover App onto the tablets. Please note: **THE APP IS ONLY COMPATIBLE WITH TABLETS**. The App can be downloaded for free on Android or Apple devices. Search "Challenger Center" to locate the app or click on the link below:
  - Google Play Store: Download Challenger Rover Google Play Store
  - Apple App Store: Download Challenger Rover Apple App Store

- Open the Challenger Rover app and select New Mission.

- Select the Moon missions and place the tablets at the station within student reach.

Additional Notes:
The Rover App also has missions that take place on Mars. The app can lock Mars missions so that students can only complete the Lunar missions.

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Explore the Moon with Rovers!

Your task: Assemble and program a rover to navigate and conduct experiments on the surface of the Moon.

You will need:

- ✓ Tablet
- ✓ Challenger Rover App

Procedures:

1. Find a tablet at the station.

2. Follow the instructions within the Rover App on the tablet at the station.

3. Complete as many Rover missions on the Moon as you can.