

# Designing a Lunar Lander

**Supplies You'll Need:** Any clean, recyclable items that you find around your house, for example: paper towel or bathroom rolls, paper plates and utensils, plastic cups, bottles, caps, etc...aluminum foil, paper and/or plastic bags, party supplies – like hats, balloons, streamers, wrapping paper; paper clips, envelopes, old stuff from your garage like string, rope, twist ties, wire, strong tape, glue – anything works – get creative!!

**Before You Begin:** Think about your design, it helps if you make a plan, or drawing. Here are some things to think about.

## The NASA Artemis Mission – Return to the Moon by 2024!

Imagine that you are part of the new Artemis Mission team, designing a Lunar Lander that will help astronauts return to the moon by the year 2024.

Your Lander must:

- **Disconnect, and reconnect later, with the Command Module**
- **Have a way of moving through space on its own**
- **Have space for the crew to live (sleep, eat, work, and pilot the lander) while they are on the moon**
- **Land safely on the moon and lift off again**
- **Have at least 1 hatch where astronauts can get in and out after landing on the moon**
- **Have a way for astronauts to safely get in and out of the lander while it's connected the Command Module in space**

Take a few minutes to think about what your Lander will need. Imagine what it will look like.

**Draw the exterior (outside) of your Lander below, and label the important parts!**

Use this drawing to guide you as you build. When you're finished, take a picture of your craft and share it with us!  
We'd love to see what you've done! You can share here: [https://cap.ucla.edu/aia\\_submissions/](https://cap.ucla.edu/aia_submissions/)