

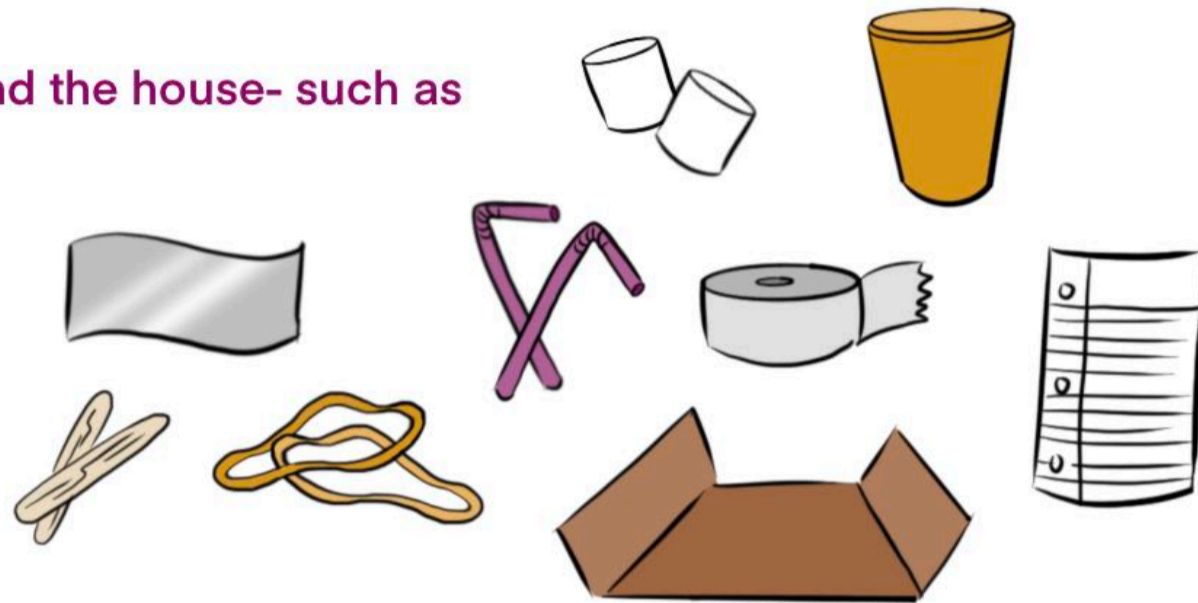
Lunar Lander Challenge

NASA needs your help to design a spacecraft that will keep the astronauts safe when landing on the moon! How can we soften the landing of the spacecraft to protect the astronauts when landing?

What you need:

- ★ 2 astronauts (marshmallows, cotton balls, small action figures, etc.)
- ★ Paper/ plastic cups
- ★ Found objects around the house- such as

- ★ Aluminum foil
- ★ Craft sticks
- ★ Rubber bands
- ★ Straws
- ★ Tape
- ★ Paper
- ★ Cardboard



What you do:

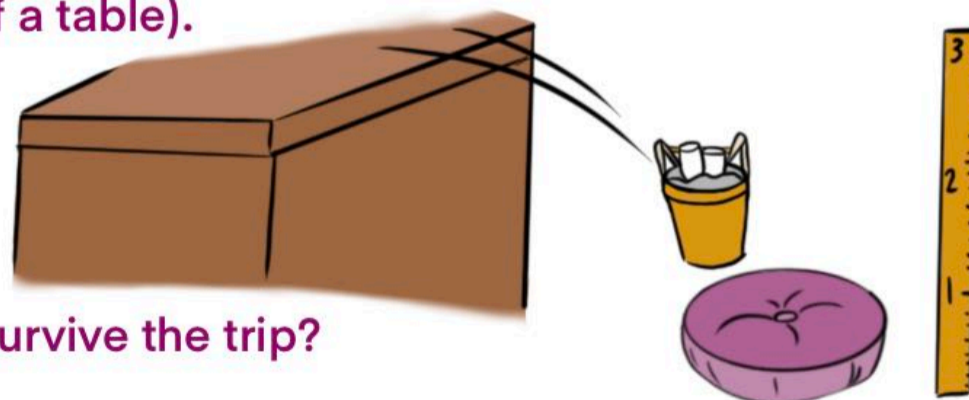
1. Brainstorm ways to soften the landing (cushion, spring, etc.) and ways to keep the lander from tipping over.



2. Design your lunar lander so that the astronauts will not fall out of the cup when dropped from 3 feet (or the height of a table). *** Your only constraint: the cup where the astronauts will sit cannot be covered in anyway.***

3. Build your lunar lander using the materials found and gathered around your home.

4. Test your lunar lander by taking the astronauts on a ride (dropping from 3 feet or the height of a table).



5. Did they survive the trip?

6. Redesign and rebuild as needed until your astronauts have a safe landing.

Experience a Lunar Landing with Apollo 11 by clicking the link below this activity.
(www.youtube.com/watch?v=n0cDftgR5UQ)

Don't forget to send us your pictures and even a video of your test flight!