

CAN YOU DESIGN A LUNAR LANDER THAT WILL SAFELY GET YOUR ASTRONAUTS TO THE SURFACE OF THE MOON?

Challenge Rules:

You must design a lander that will safely drop the two large marshmallows (astronauts) from a height of 1 metre to the ground (moon).

The astronauts must be the only thing inside the cup (lander cabin) and it must be left open at all times.

Your goal is to build a lunar lander that keeps your astronauts safe while landing on the surface of the moon.

You may not use any materials other than the ones provided to do this challenge.

There are many different ways to complete this so be creative!

Your materials:

10 straws

4 index cards (4x6)

1 cup

4 rubber bands

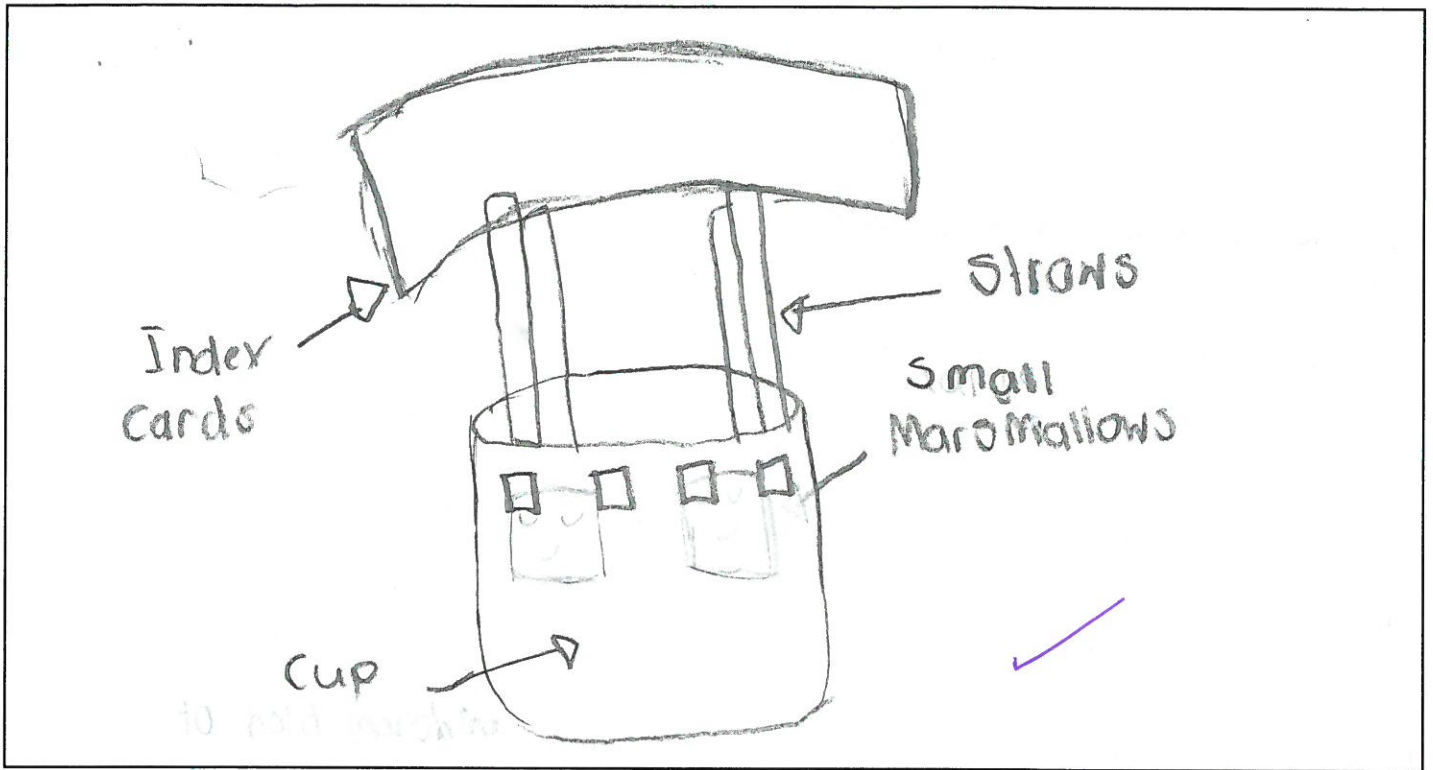
10 small marshmallows

2 large marshmallows

scissors and tape

1 A4 piece of cardboard

Draw and label your design for your lunar lander.



Record your planning and thinking here. This may include roles people will take in the group, a task list, any scientific thinking.

Roles:

Laya

Michaelle

Nisha

What changes would you make to your design in future?

In the future I would add a bigger piece of paper to help it float down. I won't add a parachute because it doesn't do anything and it puts more weight on the design.

What did you learn in this challenge?

I learnt that a parachute needs to be released from a higher height for it to work. And that you need to be more careful of how you use your products because it might not turn out how you want it to.

Assessment Rubric

	HIGH	MEDIUM	DEVELOPING
Student has identified problems and offered possible solutions.	✓		
Student has demonstrated evidence of modifications to improve the design of the lander.	✓		
Student actively collaborated and communicated within the group to solve problems and improve the design.	✓		

Report outcome: Uses scientific knowledge to pose questions and solve problems.

HIGH	MEDIUM	DEVELOPING
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