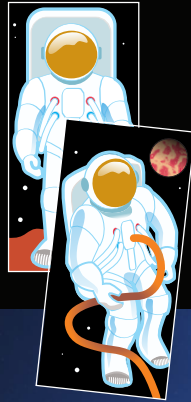


# ASTRONAUTS

NASA is improving spacesuits to better protect astronauts and allow them to move more easily.

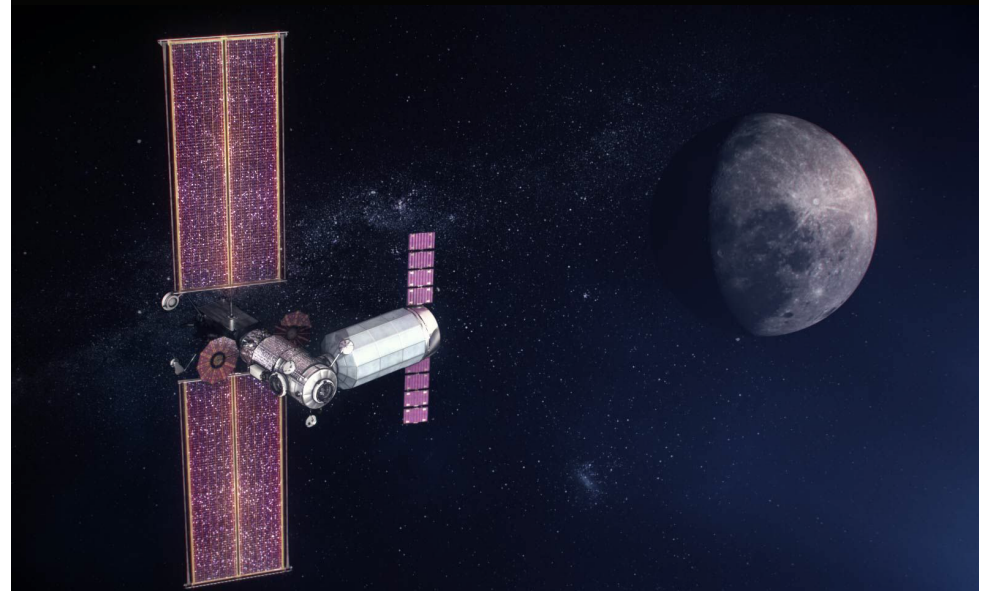
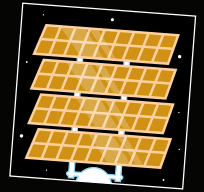


## Ask the storyteller:

What kind of jobs will you ask your astronauts to do in your story? How will you keep your astronaut(s) safe during their time on the Moon?

# SOLAR PANELS

Solar panels capture energy from the Sun and convert it into electricity. The Artemis mission's Lunar Gateway station is just one of many planned NASA spacecraft that will use solar panels.



## Ask the storyteller:

What would the solar panel power in your story? Would your solar panels be in one spot, or would you move them around?

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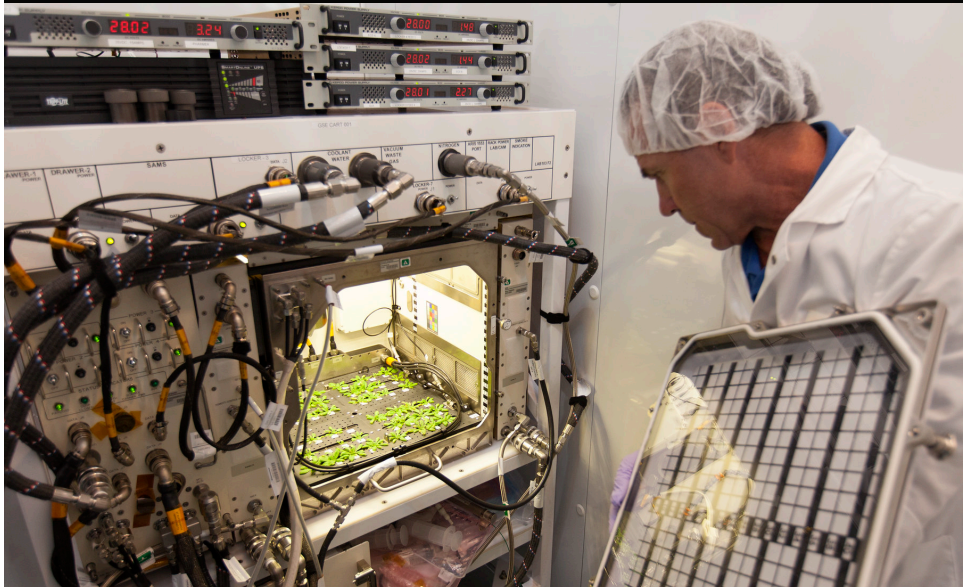
Every space mission has a story

**STORY BLOCKS**

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## GARDEN

NASA is designing mini-biospheres to grow fresh fruits and vegetables in space—even in weightlessness and without sunlight!

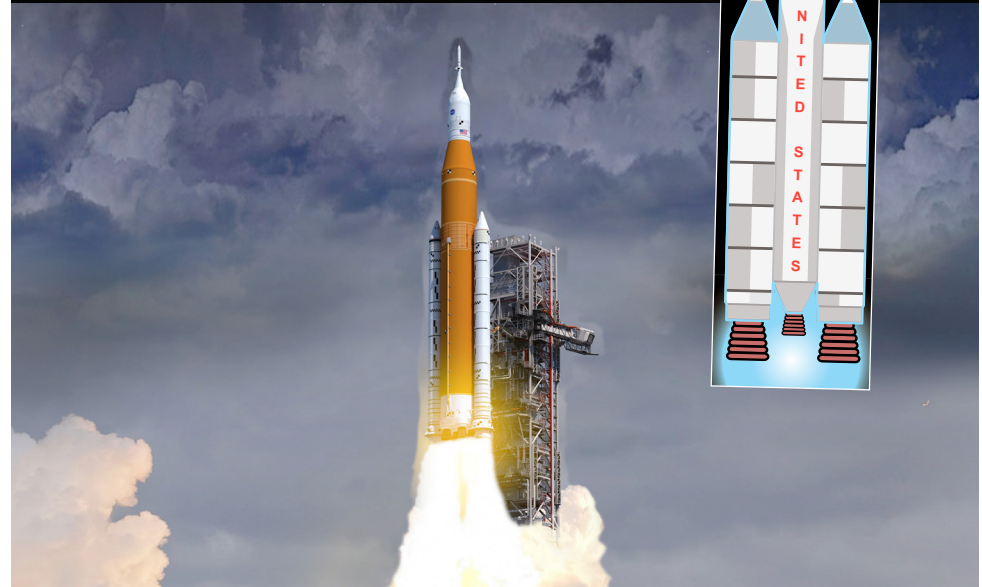
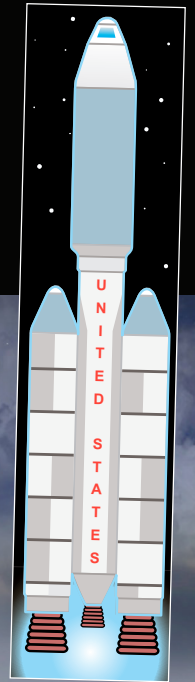


### Ask the storyteller:

What would you choose to grow in your mini-biosphere? Would you grow any food? What materials would you need to grow plants on the Moon?

## ROCKET

NASA's Space Launch System will carry Artemis mission astronauts, scientific equipment, and cargo to the Moon and beyond.



### Ask the storyteller:

How will you move your characters, their tools and equipment from Earth to the Moon? Who will get to travel to the Moon?

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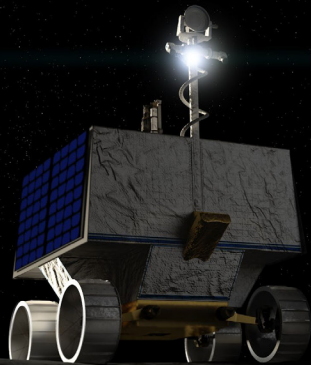
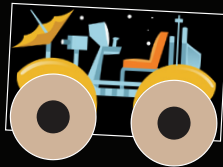
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## ROVERS

Lunar rovers and buggies are special exploration vehicles designed to move across the surface of the Moon. They allow astronauts to travel more quickly and safely rather than having to walk everywhere.

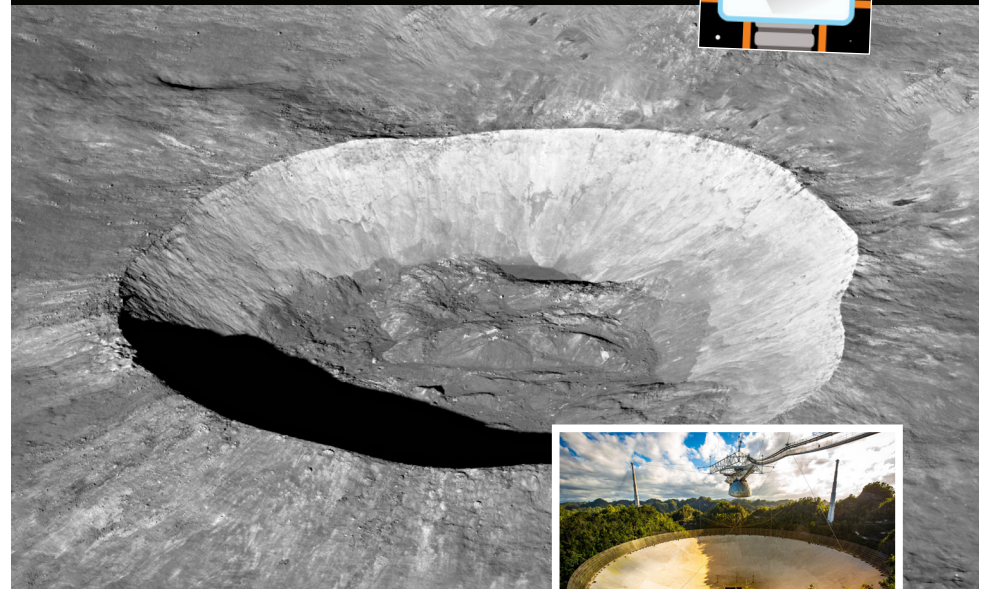
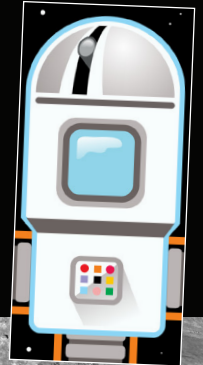


### Ask the storyteller:

What will the rover in your story look like? Why would you want a rover to go somewhere on the moon where your astronauts could not go?

## TELESCOPE

NASA is planning to place new observatories on the Moon to study far off stars and planets. One of these might use an impact crater as a giant radio telescope dish.



Arecibo Observatory

### Ask the storyteller:

Where will you place an observatory on the surface of the Moon? What space objects might we discover with this observatory?

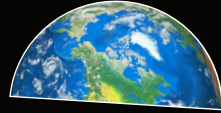
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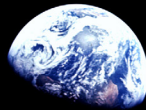
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## EARTH



Astronauts on NASA's Apollo 8 mission captured this famous image, often referred to as Earthrise, while orbiting the Moon in 1968. Looking back and seeing Earth so small and far away helps us appreciate our home planet.



### Ask the storyteller:

What would you miss most about our home planet if you were living on the Moon? What would be most different about living on the Moon? What would be most similar?

## COUNTDOWN CLOCK

The Orion Capsule will sit at the top of the Space Launch System rocket during lift off. This capsule has its own fuel, and will carry the astronauts and their equipment to the Moon about 380,000 km (240,000 mi) to the Moon.

00:03



### Ask the storyteller:

What would your Astronauts take on their trip to the Moon? When do you think your Mission to the Moon would be ready to launch?

**STORY BLOCKS**

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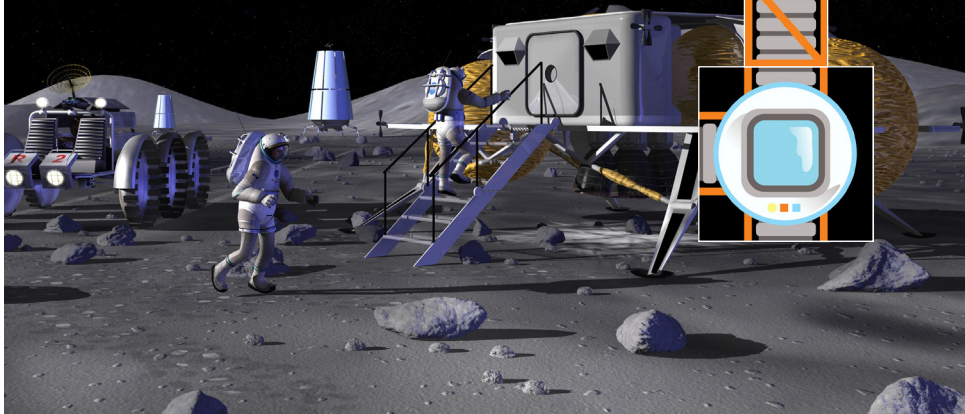
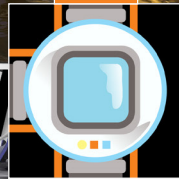
**STORY BLOCKS**

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## MOON OUTPOST

NASA's Artemis mission will return astronauts to the Moon—and they may need a place to stay. A Moon outpost would need special doors and windows that keep air and heat inside to protect Astronauts and their equipment.

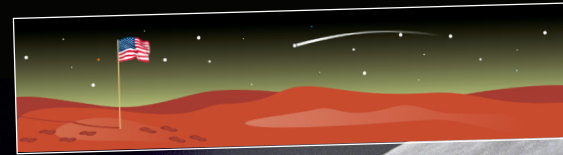


### Ask the storyteller:

What will daily life be like in your Moon outpost? How will Astronauts relax and have fun? What important work will they do?

## MOONSCAPE

The surface of the Moon is covered with fine dust, rocks, and boulders. The Moon is not flat—it has many deep impact craters and points as high as Earth's tallest mountains.



### Ask the storyteller:

Where on the Moon would you send your Astronauts? Where should they build their outpost? What are you most excited to discover?



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