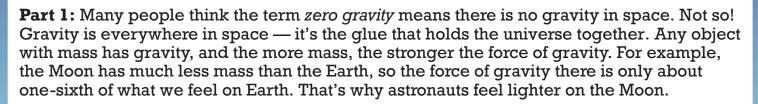
Activity 1 Reproducible Master

## **Snoopy's Special Mission**

Snoopy is headed back into space! In February 2022, he is scheduled to orbit the Moon and return to Earth aboard the *Orion* spacecraft. His journey will be the first step in NASA's Artemis mission to send a new generation of astronauts to the Moon.

Snoopy will be *Orion*'s ZGI — Zero Gravity Indicator. When he begins to float inside the spacecraft, NASA will know that *Orion* has escaped Earth's gravity.

ZGI's have been part of space missions from the start. Yuri Gagarin, the first human to orbit the Earth, used a doll as his ZGI, and later astronauts have taken all kinds of ZGI's into space.



Instead of "zero gravity," astronauts often use the term *microgravity* for what they feel in orbit. As they circle the Earth, they are actually in a kind of constant freefall that makes them feel weightless. But it's the circular motion of their spacecraft that causes this feeling, not zero gravity.

In the paragraphs above:

- 1. Find and underline two new things you learned.
- 2. Put a circle around the word that tells where gravity can be found in space.
- 3. Put a square around the word that tells what kind of gravity astronauts experience in orbit.

<b>Part 2:</b> What would you bring to space as a ZGI if you were on an Artemis mission? Name and write about it here.	
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