Week 8 Zero-g

Why Weightless? Wrong reasons.

Why Are Orbiting Astronauts Weightless?

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Based on what we've learned this week, explain why that reasoning is incorrect.

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2. "There's no gravity in space."

What holds the Earth in its orbit around the sun? What holds the Moon in its orbit around the Earth? Is there gravity in space?

3. They're really far away from Earth, so gravity is weaker.

Read what is on both sides of the paper in the sheet protector. Is that explanation correct?

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↓ 250 miles

air

space

250 miles puts your orbiter outside the atmosphere.

Sure does seem far away, but flip this sheet over to see how far away 250 miles really is.



What do you think now about the explanation that gravity is gone because you're so far away?