Talking About Gravity – 8th Grade Responses

Response – Kelly:

Student #1: I think its Kelly because gravity is a force of something stronger that pulls down. The atmosphere and air don’t make a difference between two forces, such as the sun holding the Milky Way galaxy together. There is no air or atmosphere in space and the sun is still pulling the planets together with gravity.

Student #2: I agree with Kelly because gravity is in the air and air and the atmosphere hold onto our gravity. Gravity is caused by Earth’s rotations.

Student #3: I agree with Kelly because not all planets have air. For example, Mercury doesn’t have air, but it still rotates around the sun because of gravity. I disagree with Ben because you don’t need air or an atmosphere to have gravity.

Student #4: I agree with Kelly because in the solar system there are some parts with no air but there is still some sort of gravity.

Student #5: I agree with Kelly because gravity is caused by the magnetism of a star’s or planet’s core, which draws everything to it somewhat strongly.

Student #6: I agree with Kelly because she said that if there was no atmosphere or air then there would still be gravity. I think this is true because there has to be gravity to hold everything in place.

Student #7: I agree with Kelly because I just think that way. Also I don’t think it takes air for us not to float off.

Student #8: I agree with Kelly because some planets barely have an atmosphere at all but still have gravity. Although it could be possible that Ben is right because the moon has no atmosphere and no gravity.

Student #9: Even if there is no atmosphere or air on the moon or planet, there still is a little gravity, what do you think makes the astronaut come back down on the moon? If there was no gravity, the planet would not be held together.

Student #10: I agree with Kelly because if gravity needed air then wouldn’t our whole universe collapse because its gravity makes us revolve around the sun.

Student #11: The planets in our solar system don’t all have atmospheres of air. Some of the planets have no atmosphere but have gravity.

Student #12: I think there would still be gravity. It will just be lesser than planets with air and an atmosphere. The moon still has gravity to a point but it is much less than Earths.

Student #13: I disagreed with Ben because he is wrong. Kelly’s right and Ben is wrong because, for example the moon has no air or atmosphere and there is still a little bit of gravity so that makes Ben wrong and Kelly right.

Student #14: I think that Kelly is right because you don’t need an atmosphere. The only thing keeping the moon with Earth is gravity. There is no atmosphere around both Earth and the moon.

Student #15: Before the planets were made, there was still gravity. Gravity can happen with or without an atmosphere and/or air.
Response – Ben:

Student #16: I agree with Ben because a lot of places that don’t have gravity have no atmosphere, and places that do have a atmosphere have gravity.
Student #17: I agree because if you have a smaller atmosphere like on the moon then the gravity will be less as well. Gravity is what pulls you down so you don’t float off in space.
Student #18: Our planet has an atmosphere and air, and there is gravity. But our galaxy has no air or atmosphere and there’s also no gravity. So I think Ben is right, we do need air or atmosphere!!
Student #19: I agree with Ben because I think gravity needs an atmosphere or air because if there wasn’t, then there would be no gravity.
Student #20: I agree with Ben because he says you need an atmosphere, which keeps you stable on the ground. Kelly says you don’t need an atmosphere, and if we didn’t we would by flying everywhere. That’s why I agree with Ben.
Student #21: I think that Ben is right because gravity just doesn’t go to a planet and make it that everything stay on land. So we need an atmosphere to hold gravity around the planet.
Student #22: I think that Ben is right because if there is no atmosphere or air than gravity can’t be held in one planet without an atmosphere. Kelly is wrong because gravity would escape from the planet if it didn’t have an atmosphere.
Student #23: I agree with Ben because I think that you do need an atmosphere to have gravity. Every planet has gravity because they have an atmosphere and air. Some planets have more gravity than others because of their size and atmosphere thickness.
Student #24: I agree with Ben because gravity is to force something down. In order to force something down you need an atmosphere. How would their be gravity without air or atmosphere. All planets have an atmosphere so they have gravity. Even the planets with a little atmosphere still have gravity.
Student #25: I would have to agree with Ben, because gravity needs an atmosphere so that it can exist, gravity weighs things down like dencisty or mass. I think that the chemicals in an atmosphere helps make up gravity and there has to be matter for gravity to push on so there also has to be air involved.
Student #26: I agree with Ben because without an atmosphere the air would escape and the gravity would not exist. I disagree with Kelly because the moon has no atmosphere and there is still no gravity. The Earth needs an atmosphere in order to have gravity.
Student #27: Ben is right because almost every planet has some kind of air. The ones that don’t have no atmosphere.
Student #28: Thinking over many reasons, I’d have to agree with Ben. I think that in order to have gravity you need air or an atmosphere. For example Earth has all three; the universe doesn’t have any of that; but Venus has an atmosphere but no gravity. Maybe you need an atmosphere and air to create gravity.
Student #29: I agree with Ben because if there was no atmosphere then it wouldn’t hold the gravity in. An example is Earth, Earth has an atmosphere that holds in the gravity when astronauts are just in space there is no gravity.