



Lunar Colonization Design Challenge

Part 2

1. Think about your answers to where the air we breathe comes from on earth. How could the astronauts on the moon get air to breathe? They can bring some air with them in tanks but think of a way they could create breathable air on their own. (If you can't think of any on your own, then research it on the internet and see what you can find.)

2. We know where our food and water come from on earth, now you must think of how the astronauts living on the moon can create their own food and water. Take a few minutes and write down any ideas you have. Remember, just like with our Exploravision project, let your imagination run wild.

3. We know how electricity is produced here on earth, now think of how the astronauts will be able to generate electricity on the moon to keep all their systems running. Write down any ideas you have.

4. There aren't many people on earth who work every minute of every day. Doctors know that to stay healthy you must take some time off from work and have some form of entertainment in your life. The astronauts living on the moon are no different. They will need some type of entertainment to keep them happy and healthy when they are not working. Think of what you could provide at your lunar base that the astronauts could do for fun.

5. Now the fun begins. Start drawing a rough draft of your lunar base. Follow the guidelines below:
- Project will include two pictures
 - First picture is looking at the entire base from the outside (any view you prefer: top, front, side, or back)
 - Second picture is of one specific room: kitchen, bedroom, exercise room, lab, etc.)
 - You can draw your base on paper, design it on the computer, or build it out of Legos and things around your house. Choose whatever will make you the happiest.
6. Once you have your picture finished, it is time to write up your sales pitch to NASA. You must have at least 10 sentences (10 is the minimum, you can have as many as you need) that tell NASA how the astronauts will live on your base. Try to be as specific as possible. You can add things that we didn't talk about yet like safety, communication, or anything else you'd like. Remember, you want NASA to choose your design over all the others.
7. When everything is finished, you will present your picture and sales pitch to the class. We will do a zoom meeting and one at a time you can read us your description.