



Lunar Colonization Design Challenge

- 1) Start by clicking the link below and watch the video. (You might have to copy and paste link into browser)

<https://www.youtube.com/watch?v=vl6jn-DdafM>

- 2) By 2024, the United States is hoping to have established a lunar colony. This colony would be used to conduct research, gather information about lunar soil, search for rare elements, and be a steppingstone for travel to Mars and beyond. This challenge was presented to the public by President Bush on January 14, 2004. NASA wants several companies to present their designs for a Lunar Biodome that can safely house up to 30 astronauts. They plan on choosing the best design.

- 3) Your challenge is to conduct some research and then use your new knowledge to design a Lunar Biodome for NASA. After it's created, you will share your design with the class.

- 4) Answer the following questions about life on earth:

❖ What are the 3 main things humans need for survival? _____,
_____, and _____

❖ What gas do humans need to survive? _____

❖ Where does that gas come from on earth? _____

❖ What gas do humans breathe out? _____

❖ What happens to the gas we breathe out? (what uses it?) _____

❖ Where do humans get their drinking water? (don't say the sink)

❖ What elements are combined to make water? _____

❖ Where does most food on earth come from? _____

❖ What is another food source on earth? _____

❖ Can you list 3 ways that we generate electricity on earth? _____,

_____, and _____

❖ What is 3 things you do on earth for entertainment? _____,

_____, and _____