

Earth 2.0

Introduction:

- Let's think about what it would be like to live on the moon or a planet other than earth.
- Why would we need to ever do such a thing? The earth could become over populated, run out of resources, unforeseen disasters etc.
- We might also move because we want to, rather than it being absolutely necessary. New technology in the future could make it not only possible but also financially affordable.
- When planning for life on the moon or a new planet what are some important things to think about? Weather conditions, temperature, surface type, gravity, water, food, atmospheric conditions, air etc.
- Let's design and build our own vision of a future colony on the moon or another planet that takes these things into consideration.
- And what do you do if it all goes wrong
 - Watch "The Martian" movie – if you have Netflix, [here is the trailer](#)

Instructions:

- Organize some equipment that you might have at home to design a future moon or "off Earth" colony base. Lego, playdoh, stuff from your garden... be imaginative, you could even use sugar (to replicate ice) and tin foil as a building material....all work well.
- Feel free to include members of your family.
- Select a location "off Earth" for example, the moon, Mars, or another location. Where is it? What are conditions like there? What are variables such as gravity? atmosphere? temperature? like at this off Earth location.
- Think about your designs and goals before they start building.
- Begin building and continue for around an hour or until have finished.
- If you have time you can also think about transport for your future colony...

What do you have to produce as your final product?

- Send a photo or a video of your Future Off World Colony Base to Mr Gorrie
- You must also include some explanations about your colony base
 - Why did you build it this way?
 - Why did you include that feature?
 - What was difficult in designing your base?
 - What resources on your moon or planet could you use if you can't bring stuff from Earth?
- Use your imagination and base it on Science!
- Example [here](#)

Due Date: on or before Thursday 7 May 2020