

PROBLEM STATEMENT: Designing a shelter for those living on Kepler 1649c. Ideating the living space and other utilities such as clothing and food.

Abstract for solution:

"This intriguing, distant world gives us even greater hope that a second Earth lies among the stars, waiting to be found," said Thomas Zurbuchen, associate administrator of NASA's Science Mission Directorate in Washington. Like he said, we can hope for a second earth unless we make changes to the planet. So, here we are working on this planet called Kepler 1649c that revolves around a red dwarf star Kepler 1649.

Kepler 1649c is similar to earth in size and receives 75% of the light from its host star. So assuming the atmospheric conditions to be similar to that of the earth, existence of life is possible.

Although, Kepler 1649c receives frequent stellar flares. To tackle this, whole house surge protectors could be used to protect from lightnings and other power surges. Other household items can be protected from flares by placing them in cardboard boxes covered in aluminium foil.

The temperature of Kepler 1649c is assumed to be 22 degrees celsius on a general note. So, the clothing could be just anything that's worn on earth when the temperature's around the same.

Assuming the existence of water and considering the rocky texture of the soil, potatoes are the best food that can be grown. Required nutrients can be added artificially to the soil.