



T-223

Problem Statement:

Space settlement design on Planet Kepler 1649c

Shelter Design:

The team has to design the shelter for those living on Kepler 1649c, taking the atmosphere and weather into consideration. Ideate the living space and various other utilities such as clothing and food. Make sure you ideate how to recycle, reduce, reuse.

Abstract for solution:

Kepler 1649c is similar to earth in dimension and the fact that it lies in the habitable zone of the red-dwarf star, Kepler 1649.

Shelter Design::

1. Information about the materials present locally, suitable for construction purposes.
2. Materials present should be Resistant to sudden Solar flares as it maybe a common phenomenon(Kepler 1649 is a red-dwarf)
3. Atmospheric Constituents and pressure details, say whether liquid water is present.
4. Systems to make sure that water is free of dissolved impurities.
5. Given the above details, the clothing perspective can get some info