

A Home On Mars...

Can you design a home for a human to live on Mars?

What do humans need?

Task 1: Write down a list of all the things that you think humans need to stay alive and keep and healthy.



There's ideas on the next page if you get stuck...

What do humans need? Did you get them all?



Water

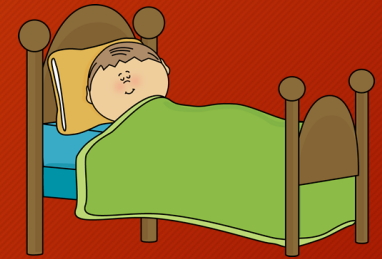


Healthy food

e.g. fruit and vegetables



Good hygiene



Sleep



Oxygen (air)



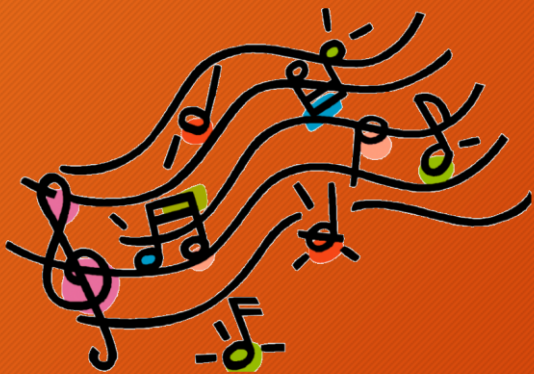
Shelter



Exercise

What do humans WANT?

Task 2: Now we have everything we need to survive, we need to add to our list the extra things we would WANT to have to make our life on Mars fun and exciting. These are totally your own opinions - this is what I'd want:



Music



Sport



Books



Communication
with my family

The problem with Mars...

Remember the video you watched before you started. There are a few big problems with Mars that we would have to solve with our building!

- The air on Mars isn't safe for humans to breath.
- There is no liquid water on Mars, only ice can survive there.
- The temperatures are crazy... Either really hot or really cold!
- The soil doesn't have the right nutrients for plants to grow.

How can we provide these things?

Task 3: Look at all of the things on your list and start thinking about what you could do to provide them. Don't write anything down, just imagine! And remember, there's no right answer so just be creative. Here's some ideas to get you started...

Food

A room full of Earth soil to grow fruit and vegetables in!

Oxygen

Big air tanks pumping oxygen into every room.

Water

Massive blocks of ice that we can melt when we need a drink.

Shelter

Thick walls to keep out the heat and cold. Heaters and air conditioners to keep the temperature right.

Now design your building!



Task 4:

Draw and label your Home on Mars!

If you wanted to, you could make a model of your home or write a short paragraph about what it has and how it works.