

# **The Human Spaceship - Living on the Moon, Mars & Earth**

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Activities below shared with SciArt Exchange for their #DesignYourHabitat Campaign. For more linked space themed activities, workshop ideas and examples please go to: <https://www.sunspaceart.org/>

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## **Moon & Mars themed activities**

*Humans dream of visiting and living on the Moon & Mars. These are hostile & isolated environments; so what would it be like to live there? Imagine you are an astronaut on the Moon or Mars designing a new habitat or community. Inspired by current space science and technology, write a postcard or pop-up book; design a rocket, satellite, robot, rover, habitat, laboratory for your community; or create a spacesuit, flag or mission badge for your adventures. When the mission is completed, share your creation.*

## **Find out about the Moon & Mars**

(If you can't look online, use observation, space books & imagination)

<http://lunarexploration.esa.int>

<https://www.nasa.gov/moon>

<https://mars.jpl.nasa.gov/>

<http://exploration.esa.int/mars/>

## **Think, Invent, Design & Make**

### **Art Materials Suggested (Recycled card, paper, fabric & plastic where possible)**

White & coloured card/paper, decorative papers (wrapping paper), tin foil, glue & sticky tape, stapler, scissors, rulers & lid circles to draw round, felt-tips, crayons & paints, plastic objects and any other items you have already on hand.

## **Postcards from the Moon, Mars & Earth**

Take a piece of card then draw and collage images including a stamp. Write a message on one side and create a Moon/Mars/Earth picture on the other side.

## **Moon, Mars or Earth Diary – Pop Up Book**

Include stories, poems, space science & environmental information, art, pictures and designs. Record your innovative space activities. What you are experiencing and inventing for a new futuristic society?

## **Design a Moon, Mars or New Earth Settlement**

You have all the money you need to plan your futuristic community. Think of new technology & materials. Design a flag and mission badge for your settlement. If you have the technology, you can 3D print Moon & Mars dust to make buildings. The Moon only has 1/6<sup>th</sup> Earth's gravity & Mars 1/3<sup>rd</sup>; So your designs can be big and adventurous. Off world, you will need a biosphere for food production, colour, recycled air and water systems. Design rover transport and robot technicians to build spaceports for travelling between the Earth, Moon & Mars. (See also #DesignYourHabitat video sessions with Astronaut Stan Love on isolated Earthly habitats and Holly Melear on cities in space. <https://www.youtube.com/channel/UCcWwSSXPD3kKUAS6GxCRcow> )

## **Spacesuit & Space Fashion Designs**

Spacesuits are very heavy & bulky making them difficult to walk in. Design a better one which keeps you warm (night) and cool (day), gives you oxygen to breathe, and protects you from radiation. Invent new technology or designs to create innovative Smart Material fashions which light up, fly, & change colour or shape or help you to thrive in your habitat. (See upcoming #DesignYourHabitat video sessions with Sheyna Gifford on Thriving in isolation.

<https://www.youtube.com/channel/UCcWwSSXPD3kKUAS6GxCRcow> )