

# SunSpaceArt

## Art Worksheet 13 – by Helen Schell - Make it to Mars

### Background

The *SunSpaceArt* project aims to inspire children and to develop creativity. The project brings together arts and science learning (STEAM). The team comprises scientists, space ambassadors and artists. The project is funded by the Science and Technology Facilities Council. For more information, see the [www.sunspaceart.org](http://www.sunspaceart.org) website or contact [info@sunspaceart.org](mailto:info@sunspaceart.org).

This art worksheet is designed for teachers to deliver *SunSpaceArt* lessons independently.

**Grade:** Key stage 2 or 3

**Ideal Class size:** 24-30

### Materials:

- Recycled domestic plastics, paper and card
- Collage materials (tin foil, stickers, holographic paper & printed images)
- Scissors & craft knives (age appropriate)
- PVA glue, glue sticks, tapes, staplers, DS sticky pads, and glue guns for older children
- Water based paints & brushes of different sizes
- White & coloured paper & card (A4 – A1)
- Pencils, crayons & felt tips
- Textiles & Smart Materials (Hi Vis Safety Jackets, Lycra, Thinsulate, Fleece, Kevlar, heat & water reactive fabrics).

### Extension Themes

- International Space Station, exoplanets, the Moon and the Sun

**Objectives:** for teachers and pupils to create original artworks about the Sun, Mars, Solar System and space within the context of plans for Mars exploration. The aim is to enable a greater understanding of space science by using art and craft techniques and literacy. The links below can also be used for story writing, poetry, performance, maths and IT sessions. This is an ideal format to introduce the children to careers in science and the arts.

### Workshop Themes:

solar technology (energy) and martian mining (industry and geology)

Mars base – architecture, living and community (habitats, gardens, food and health)

Mars tourism (posters and marketing)

Mars rovers (design and technology)

Mars space station and satellite orbiters (spacecraft and geography)

spacesuits, robots and martian fashions (smart materials and design)

Mars diaries (magazines, comics and literacy)



### Workshop plan

**Running Time:** a morning or full day activity or several lessons over a longer period

### Activities:

The aim is to create a series of Mars images and/or 3D objects in terms of exploration and future settlements. The children should include written facts with their art and

design. Groups can create a Mars mission or colony. Please set out a range of materials for easy access and to promote experimentation. All materials and activities are suggestions and we hope that teachers and pupils will develop their own customised versions as this is about space exploration and discovering new things. Pupils can work in groups, pairs or as individuals.

**Step 1:** Workshops should begin with either a PowerPoint presentation or pupils can go do their own research either online or by using books and magazines. A whole class discussion will get ideas flowing and enable children to develop their chosen project.

**Step 2:** The children should choose a 'Mission Team' name then devise and create a Mars themed project. Having reference images and facts about the Sun and Mars on the table will assist with this activity.

**Step 3:** A planning session could be in the form of an 'Ideas Book' or large sheet of paper.

**Step 4:** The pupils select a variety of materials to produce 2D or 3D martian projects.

**Final Project:** All artworks and scientific investigation can be brought together to create a mission to Mars or martian settlement or can be presented as individual work. They should present a 'Show & Tell' in the classroom and projects can be used for school assemblies, exhibitions and parent events.

**Discover more - online resources for research & development:**

<https://mindsetonline.co.uk> or other online shops for smart materials

<http://www.suntrek.org/>

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

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

<http://www.spacetoearthchallenge.org.uk/materials-how-smart-materials-are-used-resources/>

<http://thenewbridgeproject.com/portfolio/helen-schell/>

## Workshop Images

