SunSpaceArt

Art Worksheet 11 – by Helen Schell - Solar ‘Pop-up’ Cards
The Sun, Our Star – Our Place in the Universe

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 website or contact info@sunspaceart.

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

Grade: Key stage 2 or 3
Ideal Class size: 24-30

Objectives: for teachers and pupils to create original art ‘pop-up’ cards about the Sun or Solar System within the context of space 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 science (energy, light, spectrum & magnetism)
solar and satellite technology (communication & IT)
Sun & Earth (environment)
Solar System exploration

Materials:
- Collage materials (tin foil, stickers, holographic paper & printed images)
- Scissors & craft knives (age appropriate)
- PVA glue, glue sticks, tapes, staplers, DS sticky pads.
- Water based paints & brushes of different sizes (optional)
- White & coloured paper & card (A4 – A1)
- Pencils, crayons & felt tip pens
- Use recycled materials where possible

Workshop plan
Running time: half-day activity.
Activities: The aim is to create a series of Sun or space themed ‘pop-up’ cards in terms of solar science and space exploration. This should be achieved by collage, folding, cut-out and pop-up techniques. The children should include written facts with their art and design. Groups can create a larger book or space library.

Extension Themes
- Planets, stars, galaxies, black holes
Step 1: Workshops should begin with either a PowerPoint presentation or pupils can go and 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: Demonstrate some simple ‘pop-up’ and ‘cut-out’ techniques. Having reference images and facts about the Sun and planets on the table will assist with making the cards.

Step 3: Have a planning session, if required, use A4 sheets of paper.

Step 4: Cut out images from astronomy magazines to supplement original art work.

Step 5: The pupils select a variety of materials to produce 2D or 3D solar and space pop-up cards.

Final Project
All artworks and scientific investigation can be brought together to create a Sun or space ‘exhibition’ 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. This is an ideal format to introduce the children to careers in science and art.

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http://www.suntrek.org/
http://sci.esa.int/solar-orbiter
https://www.nasa.gov/content/goddard/parker-solar-probe
https://www.esa.int/esaKIDSen/TheSun.html
https://www.nasa.gov/sun
http://thenewbridgeproject.com/portfolio/helen-schell/

Workshop Images