



Date: Monday, June 23, 2020

Time: 1:00 pm, 45 – 60 mins

Materials:

Cotton Bandana
Sponge brush
Sun Print Fabric - 1 sheet
Paint
Safety Pins – 5
Bowl of Water (not included)
Natural Materials: leaves,
flowers (not included)

Activity Agenda

STEM – Sun Printing



I. Welcome

Be sure to have your materials ready before the video session starts and always ask an adult for help and permission.

II. Activity Overview

In 1841, the cyanotype process was invented. The cyanotype process created photographic images with blue backgrounds. Engineers and architects used this process to copy their technical drawings or blueprints. To create an image, you need to expose the chemically treated paper to natural or UV light. See this process in action during the “How does Sun Printing work?” activity. Create your own camp bandana designs using sun printing.

III. Grade Levels

- All campers are welcome to join to learn and participate in the activity

IV. Activity

How does Sun Printing work?

1. Before you take out your Sun Print Paper, make sure you aren't outside or near a bright window. The paper is so sensitive that it may start to develop before we start.
2. Choose something to print on your paper. The best objects are ones that can lie flat and create a strong outline.
3. Once you have your object, head outside and set your print outside in direct sunlight for 5 mins. When you see most of the color disappear from the paper, your print has been fully exposed. If no direct sunlight is available, don't worry—just expose your print a little longer and wait for the same fading effect. Under cloud cover, the process will take 5-20 minutes depending on the thickness of the clouds.



4. Rinse your Sun Print in water. To get the deepest blue that the paper can give, leave it in the water for a while: 1-5 minutes.
5. Volia! Now let's create our own sun printed bandana!

Sun Printing on Fabric

1. We will be using natural items like leaves, flowers, rocks, or twigs to make our designs. Head outside to find items you would like to print. Use rocks to write your name or create an animal using the leaves. Use your imagination to create a camp inspired design.
2. Prepare your paint: pour equal amounts of water and paint into a bowl and stir.
3. Wet your bandana in the bowl of water and squeeze it out until it is no longer dripping.
4. Lay the bandana out on a mat or paper towels. This portion will get messy so make sure whatever surface your working on is protected.
5. Paint the bandana using the sponge brush.
6. As soon as you are done painting, press the leaves, flowers, or objects top side down onto the painted bandana, making sure the edges of the leaves and flowers lie flat. The more contact with the fabric, the sharper the lines will be in the end.
7. If you would like to secure your items to the bandana, ask an adult to help you use the safety pins to pin your items down
8. Place in the sun. Leave the fabric out in the sun until dry. At least 1 hour.
9. When your bandana is completely dry, remove your items. Do you notice anything?
10. Set your design and paint. Place your bandana in the dryer on high for 30 mins.
11. To clean your bandana, wash by hand only!
12. Your bandana is ready to wear on your next hike or outdoor adventure!

v. Clean Up

A Girl Scout always leaves a place cleaner than she found it.

Make sure you clean and save your paint brush; you will need it for Bird Call Sound Waves tomorrow. Don't use all your paint, you will need it for multiple activities this week.

VI. Closing

Be sure to tune into our next activity – Bib/Mosaic Necklace at 3:00 p.m.

See you soon, Girl Scout!