

Green 2 Troops – Daisy Space Science Explorer Badge

1. Nature Sky Journal

- Go outside at *three different times* during the same day (morning, afternoon, and before sunset).
- Use scrap paper or recycled notebook pages to draw or write what the sky looks like each time (clouds, color, light, birds, etc.).
- Predict how it will change — were you right?

Eco Tip: Use reused paper and colored pencils or crayons (no markers or glitter). Stay in the same natural spot for each observation.

2. Shadow Dance Tracker

- In the morning, find a sunny spot outside. Place a reused paper bag, pizza box, or cardboard on the ground.
- Have a buddy trace your shadow with chalk or small rocks. Return later in the day and trace it again in the same spot.
- Compare: Did your shadow move or change shape? Talk about what the Sun was doing!

Eco Tip: Reuse cardboard and chalk instead of plastic tape or disposable materials.

3. Moon Watcher Window Chart

- Pick a window at home where you can see the Moon at night. On 3 different nights, check to see what shape it is — full, half, crescent, or gone?
- Make a mini Moon chart using scrap paper or a cereal box. Draw or glue cutouts of the shapes you see.

Eco Tip: Use old magazine scraps or paper you already have at home.

4. Moon Story Stones

- Collect 4 small rocks or pebbles. Draw a different Moon phase (full, half, crescent, new) on each with washable markers or paint.
- Use them to play a matching game or make up a story about a girl astronaut who sees each Moon shape in space.

Eco Tip: Use found nature items (stones, leaves) and avoid buying new materials.

5. **Natural Constellation Art**

- Learn about a few simple constellations (like the Big Dipper or Orion).
- Using twigs, leaves, and small stones, create those shapes outside or glue them onto recycled cardboard.
- Name your own made-up constellation and share what it looks like!

Eco Tip: All materials must come from nature or be reused. No plastic star stickers needed!

6. **Eco-Friendly Star Theater**

- At night, lay on a blanket in your yard or at a local park. Look at the stars and notice their patterns.
- Quietly listen to the sounds of nature too! What do you hear at night that's different from the day?
- Afterward, draw your "night sky scene" on the back of a used envelope or scrap paper.

Eco Tip: Use what you already have at home — no need for glow-in-the-dark materials.

Bonus Reflection

After completing the badge, gather your troop or family:

- Share one thing you learned about the sky.
- Share one way we can help keep the sky clean (like using less electricity at night or walking instead of driving to see the stars).

This Green badge plan was created by virtual volunteer
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