Have you ever noticed that sunlight makes colors fade?

**Activity:**
Gather brightly colored paper, several pennies or other shapes like legos or building blocks. Find a spot outside that gets several hours of sunlight and arrange them to form a pattern or design. Wait 4-6 hours and then remove the pennies or blocks and observe any changes to the paper.

*Tip:* if it is a windy day you may need to weight the corners of the paper under a flower pot or with rocks so it won’t blow away.

**Questions to ask:**
Where is the paper appearing lighter?
   *(Around the design.)*
Where is the paper darker?
   *(Under the pennies or other shapes.)*
Where is the sunlight affecting the paper?
   *(Any places that are not blocked by the pennies or shapes.)*
What might happen if we left the paper with the shapes out for a longer time?
   *(The paper would continue to lighten.)*

**To learn more:**
Watch this video on Youtube: https://www.youtube.com/watch?v=9e__f8Ydu8Q