

# SPOOKTACULAR Explore it!

## Spooky Halloween Shadow Tracing

Time: 20 minutes

Every day the sun rises in the east, moves across the sky and finally sets in the west. Did you know that sunflowers follow the sun to catch the most rays? Engineers also make solar panels that pivot with the sun to ensure they are collecting the most energy from the sun. Just like the sunflower and the solar panel, shadows also move with the sun's light and are caused by an object blocking the sun's rays.

Can you make the shadows from your Halloween toys creep along with the light from the sun? Step outside and let the sun's rays be your guide in this fun shadow art project!

### Materials List

1. Paper or driveway
2. Crayons or sidewalk chalk
3. Pumpkin or spooky Halloween figures
4. Sunshine

### Instructions

1. Collect your materials and go outside in the sunshine.
2. Place your items in the sun and see if they have shadows.
3. Outline the shadow on the driveway or a piece of paper.
4. Leave your shadow drawing there and come back in 60 minutes to see how the shadow moved. (Optional: Retrace and leave it for another 60 minutes.)
5. Extra: When you are all done tracing, color in your shadow outline to see any changes that occurred over time.



### Table Talk

Did your pumpkin shadow get bigger or smaller after 60 minutes? Did your Halloween image move just like the sun? Would you be able to do this art project at night?