



Wisconsin K-12 Energy Education Program (KEEP)  
College of Natural Resources  
University of Wisconsin - Stevens Point

AND

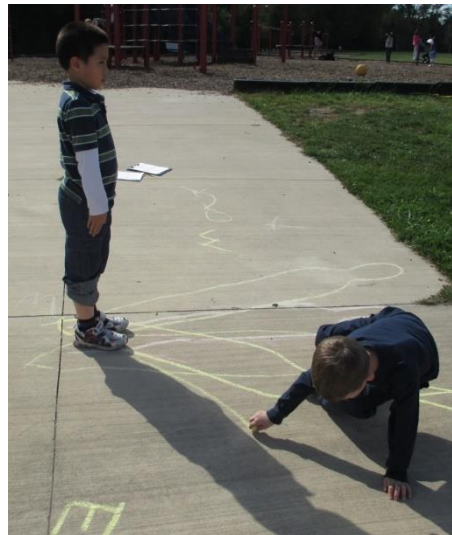


## Connect, Explore, Engage at Home! Seeking Shadows Grades K-3

**Introduction:** Have you ever made shadow puppets with your hands? Your fingers block light from reaching the background creating a dark shape or shadow. Did you know that your shadow can change as the sun appears lower or higher in the sky? Let's follow the journey of your shadow throughout one day.

### Morning (8- 10:30am)

Go outside on a sunny day. Use chalk to mark "X" and ask a family member to stand there. Trace the shadow of your family on the sidewalk with chalk and have them do the same for you with a different color.



### Afternoon (12-2:30pm)

Stand back on the X and retrace your shadows. Compare the shadows.

### Evening (4 - 6:30pm)

Stand back on the X and retrace your shadows. Compare the shadows.

**Tip:** If you don't have sidewalk chalk, you can use a string on grass or just take a picture. Just be sure to stand on the same spot for each time.

**Let's talk about it!** How did the shadows change? Why does this happen? What time(s) of day were the shadows the longest? Check out this [VIDEO](#) for answers.

**Get Creative:** Go outside in early morning or late evening. That's when the sun is lowest on the horizon and the shadows are longest. Set up a toy on a piece of paper. Trace the shadow of your toy on the paper.



**Get Active:** Play a game of shadow tag with your family! Instead of tagging with your hands on someone's body, tag their shadow with your feet.

More from KEEP: Video [Seeking Shadows](#), Full Lesson [Shadows in the Schoolyard](#)