



Stars Have Stories

What do you see during the daytime and at night?

Week One - At Home Activities

Presented by the UWM Alumni Association and UWM Manfred Olson Planetarium.



Discover the Pattern of Change in the Sun's Position Each Day

- Find the time of today's sunrise or sunset at <https://www.timeanddate.com/sun/>

For example, on April 24 in Milwaukee, the sun rises at 5:54 am and sets at 7:45 pm.

- Stand to face the Eastern or Western horizon a few minutes before the sunrise or sunset and mark your position. (Ideally you want to be able to fully see the sun with nothing blocking it in the sky, though this will still work with obstructions because Sun can be seen through the trees.)
- With your parents help, take a picture of where the Sun is in the sky when rising or setting.
- Repeat for a few days and notice how the Sun will move, rising or setting at a different spot. (It might take a few days to see the pattern!)



Chalk and Shadows

- You'll need a sunny day, sidewalk chalk and a friend to help.
- Stand on the sidewalk and notice where your shadow falls.
- Have your companion use chalk to draw a circle around your feet (so you know where to stand again) and around your shadow.
- Then, put a big X on the sidewalk where you think your shadow will reach in an hour (or whenever you will go outside again to check!)
- Now it is your turn to sketch your friend's feet and shadow.
- Check back an hour or two later to see if you were right about the new position of your shadow.
- You can repeat and see if your predictions get better with each try!



Spot the International Space Station

- Learn when the International Space Station will be visible to you - enter your city on this website: <https://spotthestation.nasa.gov/>

Find even more fun activities and virtual tours of the night sky on the UWM Planetarium website: <https://uwm.edu/planetarium/>

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