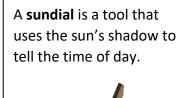


## **DAYLIGHT HOURS: BUILD a SUNDIAL (K-2)**

## The SCIENCE of a SUNDIAL:

People first learned about time by watching the sunrise and sunset, and observing the shadows cast throughout the day.











## **READ:**

<u>Next Time You See a Sunset</u> by Emily Morgan provides both insight and beautiful images to share more information about the sun and its 'movement' around the earth.

Enjoy a special <u>reading from the International Space Station</u> by astronaut Mark Vande Hei.

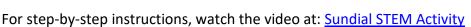
## **ACTIVITY: BUILD a SUNDIAL**

Materials: paper plate, pencil or stick, clay (optional), 12 rocks/paperclips, compass, clock **TIP**: Don't have a compass? You can make one with a few simple items!

- 1. Choose a sunny area to set up your sundial.
- 2. Push the pencil through the <u>center</u> of the plate.
- 3. Put the stick or pencil in the ground (or in a large piece of modeling clay, if your space is on a concrete or wooden surface).
- 4. Using the compass, angle the pencil slightly north.
- 5. Visit your sundial each hour to mark the shadow's location at that time.



**What is happening?** The earth is tilted, and this affects the length of our shadows. As the earth turns, the sun crosses the sky. When we move, so does the shadow.



This at-home educational activity is from the Literacy Coalition of Palm Beach County's literacy-based Stories & STEM program.

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Having fun? Send pictures or video links of you and your Stories & STEM projects to csharkey@literacypbc.org

