

Sundial Activity

Before beginning this activity read the information located at:

Sundial Primer: Analemmic Sundial,

http://www.mysundial.ca/tsp/analemmic_sundial.html

Wikipedia Sundial,

<http://en.wikipedia.org/wiki/Sundial>

Wikipedia Magnetic Declination,

http://en.wikipedia.org/wiki/Magnetic_declination

NOAA Geophysical Data Center Declination Calculator

<http://www.ngdc.noaa.gov/geomagmodels/Declination.jsp>

1. What is a sundial?
2. Provide one historical fact about sundials.
3. What is a gnomon?
4. Describe how an analemmic sundial works.
5. Other types of sundials include garden, vertical, diptych, elevation, equatorial bow, reflection, and analog calculating. Select one of these and describe how it works.
6. Do sundials measure mean or local solar time?
7. Is sundial time affected by longitude, latitude, or both?
8. What is magnetic declination?
9. How does Tucson's magnetic declination affect how we set up our campus sundial?