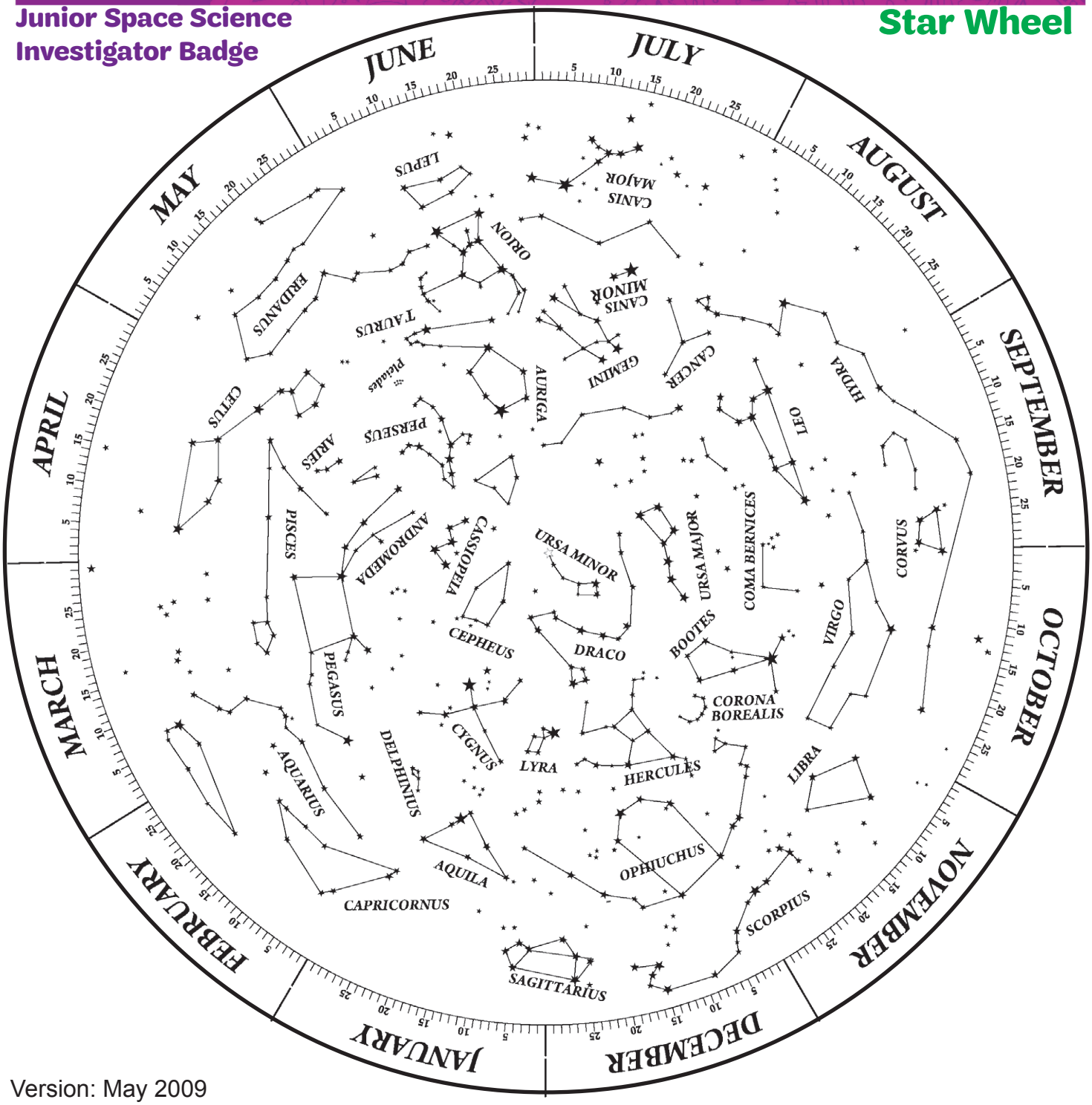
girl scouts

Junior

Junior Space Science Investigator Badge

Star Wheel



Version: May 2009

INSTRUCTIONS FOR ASSEMBLING UNCLE AL'S STAR WHEELS

Step 1: Print out all pages either on heavy cardstock or paste them onto a file folder or any other sturdy piece of cardboard.

Step 2: Cut along the black outer circle of the Star Wheel and along the solid lines on the Star Wheel Holder. Remove the interior oval shape on the Star Wheel Holder.

Step 3: On the Star Wheel Holder, fold the cardboard along the dashed lines.

Step 4: Tape or staple along the edges of the Star Wheel Holder forming a pocket.

Step 5: Place the Star Wheel in the Star Wheel Holder.

Instructions for Using Uncle Al's Star Wheels

1. Align your date and time, and then look up at the sky
2. Locate the constellation you want to find on the map.
3. Turn your map so the horizon it is closest to is at the bottom.
4. The star positions in the sky should match those on the wheel.

Tape

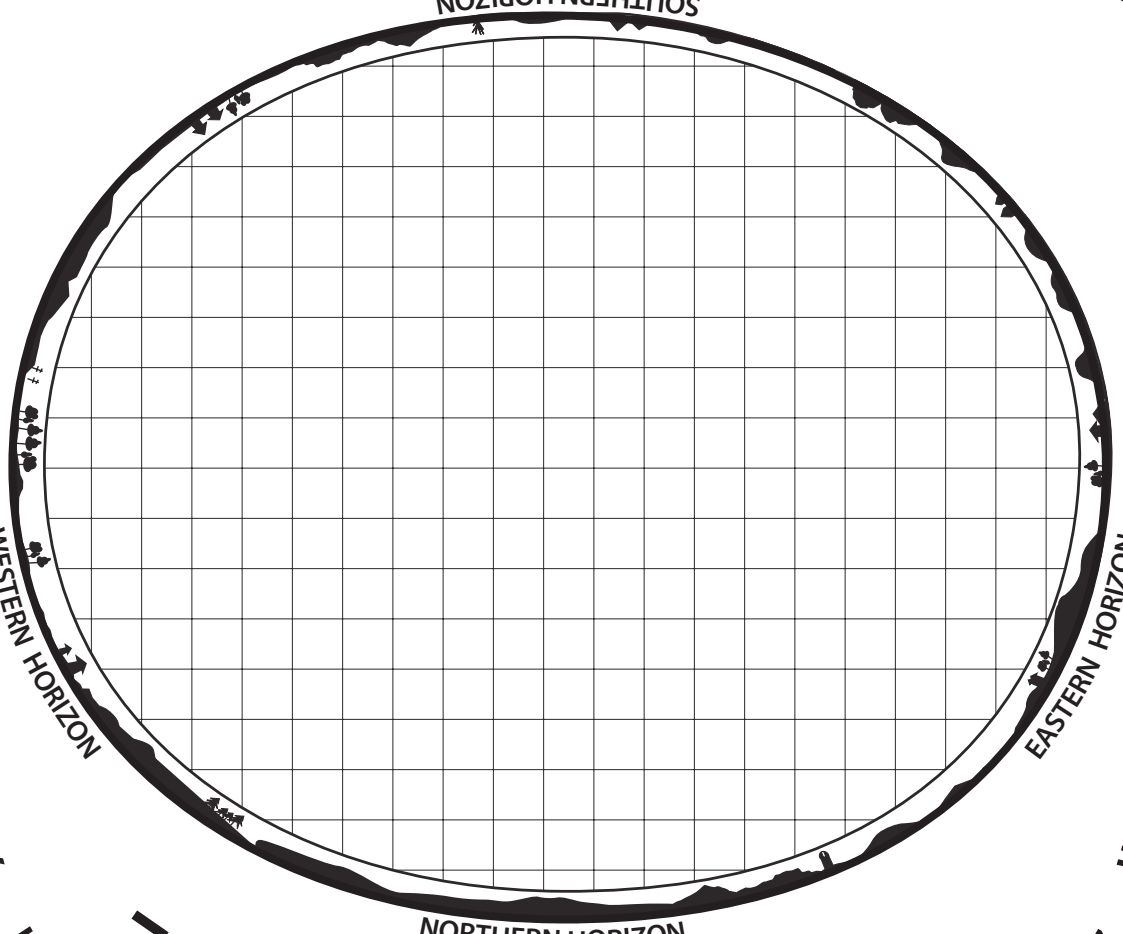
Tape

Uncle Al's Star Wheels are based on LHS Sky Challengers created by Budd Wentz.
Uncle'Al's Star Wheels - http://www.uncleal.net/uncle-als-starwheels
Kepler Star Wheel - http://kepler.nasa.gov/education/starwheel/
[this site has latest version of starwheels, holders, and a page of star & planet details]

Version: February 2013

NASA's *Kepler Mission* website - kepler.nasa.gov

SOUTHERN HORIZON



WESTERN HORIZON

EASTERN HORIZON

NORTHERN HORIZON

Green circles denote stars with exoplanets.
Star magnitudes are shown for 1st, 2nd, & 3rd mag

Blue squares show the Kepler field of view (CCD array)

6PM 7PM 8PM 9PM 10PM 11PM 12AM 1AM 2AM 3AM 4AM 5AM 6AM

KEPLER STAR WHEEL

HOLDER FOR LATITUDES ABOUT 30°-50°N

UNCLE AL'S HANDS-ON UNIVERSE

STAR WHEEL HOLDER