## hлпэлə<sub>W</sub>, Jəqidn(, untrs snuəл sлvw, Ecliptic uns

during Spring and Fall equinoxes in its annual cycle. ecliptic is tilted and the Sun crosses the celestial equator where they are in their orbits. Due to the Earth's tilt, the no based prigned notion changing based on the Zodiac constellations that divide it, with their Sun and planets move slowly along the ecliptic through planets rise and set in sequence along the ecliptic. The bne, nooM, nuc and the state, and the Sun, Moon, and across the sky (the ecliptic). As the Earth rotates daily, the we see the Sun, Moon, and planets in nearly one line the Moon orbits the Earth in close to the same plane. So the Sun in nearly the same plane (the ecliptic plane), and classical idea of the ecliptic. Earth and the planets orbit

The best way to understand the night sky is through the

Sun, Planets, Moon Positions on 8/26/1956

**Birthday Edition** 

by Baba-Isha-Koel

# The Ecliptic

celestial sphere, pinpoint planetarium Frustum-shaped star finder, Globetarium Facebook

# Aunt Lyni Happy Birthday

## Your Birthday Sky

Frustarium

Poke out holes for stars using a push-pin.
Fold up along dashed lines.
Tape together edges with clear tape.

**Construction Instructions** 

Viewing Instructions

As the Earth orbits the Sun, the Sun appears to move along the ecliptic through the Celestial Sphere, circling once every year.

So on your birthday the Sun is in the same spot on the ecliptic that it was on the day you were born.

The other planets also appear to move along the ecliptic as they orbit the Sun, but their orbits are either shorter or longer than one earth year, so they are not in the same spot every year.

The stars are so far away that they do not appear to move at all during your lifetime.

Free Frustarium and other Globetarium pdf files at Globetarium.com and Facebook.com/Globetarium.

Selected constellations, asterisms, and bright stars shown. Sun, Moon, and planets not to scale.

Never look at the sun except through eclipse glasses

Look in from below to see constellations.
In a small darkened room, shine cellphone light in from below to see stars on cellings and walls.