## Constellation, Sidereal Zodiac, and Tropical Zodiac Dial

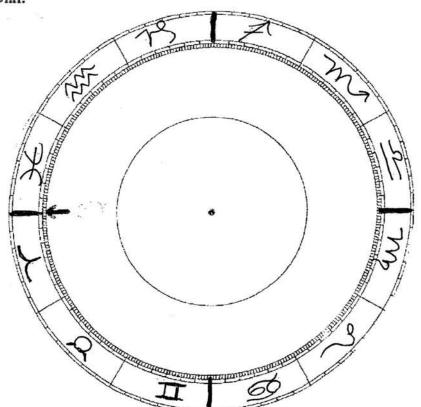
To create your own dial, follow these simple steps:

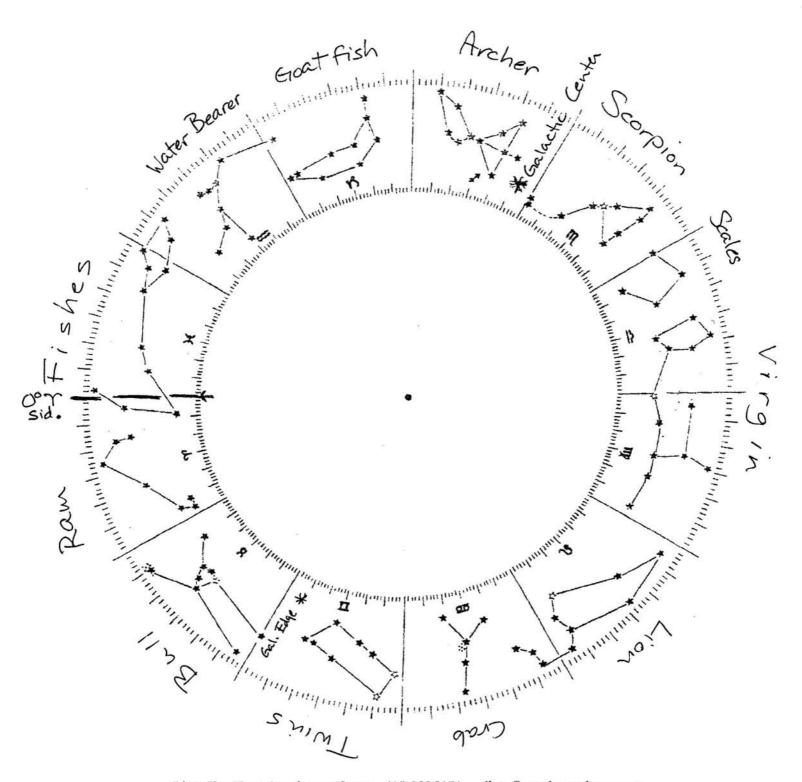
- Carefully cut out the small Tropical Zodiac Dial on the outermost circle.
- 2. Poke a small hole in the center of the Tropical Zodiac Dial.
- Pole a small hole in the center of the big Constellation/Sidereal Zodiac Wheel.
- 4. Insert a brad into the Constellation/Sidereal Wheel from the bottom.
- 5. Place the Tropical Zodiac Dial over the Constellation/Sidereal Wheel.
- 6. Now you can spin the Tropical Zodiac Dial.

## Things to Observe:

- 1. No constellation is exactly 30 degrees. Find the longest and the shortest constellations.
- The sidereal zodiac signs mostly align with the constellation of the same name, but not perfectly, due to unequal size of the constellations.
- Once the Tropical Dial is attached, line up 0 degrees Aries on both zodiac circles. This is approximately equivalent to the time 200 C.E.
- Spin the Tropical Dial slowly CLOCK WISE to show effect of precession, one degree per 72
  years. One entire spin equals almost 26,000 years.
- 5. Currently, the difference between the most common sidereal zodiac and tropical zodiac is almost 24 degrees. 0 deg. Aries in the tropical zodiac is equivalent to 6 deg. of Pisces sidereally.
- Notice that 0 degrees Capricorn Tropical the Winter Solstice is aligning with the Galactic Center, located at 3 – 6 degrees of the Archer (27 – Sagittarius to 0 Capricorn tropically). Solstices align with Galactic Center twice in 26,000 years.

## **Tropical Zodiac Dial:**





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