A model to show the apparent path of the sun among the stars

Draw the signs of the zodiac are drawn in the correct order on a strip of paper about 60 cm long and 8 cm wide. Glue the ends of the paper together making a continuous loop with the zodiacal constellations inside. Stand the loop edgewise and glue it to a cardboard base making a circle about 18 cm diameter. Place a short candle at the centre to represent the sun. Mark the seasons corresponding with the signs of the zodiac are on the baseboard outside. Hang a walnut or a ball from a piece of cotton so it will rotate as the cotton unwinds and serve to represent the rotating earth.

The constellations we see are due to the Earth's orbit around the sun. Northern winter means that at night we are facing certain constellations. But in northern summer, we are facing those same constellations but during the day so we can't see them.