## ANCIENT ASTRONOMY 9 <br> 

 the Ecliptic Line. The intersecting Node of the Moon's opposite points would converge at the center where all 3 lines interest.

## THE BASIC FEATURES OF THE SAROS CYCLES



EARTH

From a top view of the geocentric depiction of the Earth, the Moon's orbit around the Earth has some unique attributes. The orbit of the Moon going around the Earth is not a perfect circle, but elliptical in nature. What is very interesting about the elliptical orbit of the Moon is that as it revolves around the Earth and crosses the 2 Nodes, the Moor orbit itself is rotating, counter-clockwise. Thus, such a dual rotation also causes the 2 Nodes to spin as well.

### 18.2 Year Lunar Path




SAROS CyCle
~ 13,000 YEARS
70 ECLIPSES AVERAGE (182 YEARS) 40 Cycles at A time

EcLiptic Line

* The total time that it actually takes for the Lunar Path Orbit to complete 1 revolution is 18.2 years. Assuming a top view with the Sun to the right of the diagram, when the Moon reaches the Ecliptic intersectional Node, or when the Moon is directly in-between the Spherical Earth and the Sun, this is where the solar eccipses occur. Conversely, when the Moon is in the opposite Node intersection on the Ecliptic and the spherical Earth is in-between the Sun and the Moon, this is where the lunar eclipses occur, etc.


NODES

