Abstract: The Classic Period Maya (200-900 AD) were an extraordinary civilization. They excelled in art, hieroglyphic writing, science, and monumental architecture. They knew with great accuracy the length of the solar year, the Venus year, and they could predict eclipses. It has been reported that the sometime around 500 AD, the Maya predicted that the end of the world would take place December 21, 2012. In order to assess this claim, we will learn the Mayan mathematical system, their concept of counting time, and the manner by which they used mathematics and calendrics to predict future events.