



Solar Eclipse Scale Model

In this model, Earth is represented by the larger 1-inch ball and the Moon is represented by the smaller $\frac{1}{4}$ -inch ball. The Moon orbits 30 Earth diameters away, so on this scale, Earth is placed at the 1" mark of a yardstick and the Moon is placed at the 31" mark. Placing the Moon between the Earth and the Sun (light source) will cast a shadow of the Moon onto the Earth and you can produce your own mini-eclipse!