

# *Scope and Sequence*

## **Moon Phases with Changes in Area of Circle.**

### **Week 1 ---- Phases**

**(8.6 A/B, 8.7A, 8.7D )**

**Cycles using moon phases. TLW uses explore phases through cycles and create models of lunar phases. (calendar 28 days).**

**New Vocabulary: new moon, waxing crescent, first quarter moon, waxing gibbous, full moon, waning gibbous, last quarter moon, waning crescent**

**[www.stellarium.org](http://www.stellarium.org)**

### **Week 2---Volume**

**(8.7 D, 8.9A)**

**Volume of spheres, circumference, diameter, radius.**

**TLW create models, practice formulas and explain reasoning for the following mathematical calculations.**

**[www.lpi.usra.edu](http://www.lpi.usra.edu)**

### **Week 3---Distance and Scale**

**(8.10A, 8.15A)**

**Fractions to Percents; Scale factor, distances from Earth to Moon, Moon to Sun, Earth to Sun.**

**[Moon phase activity---cake molds \(phases of the moon\) presented by NASA](#)**