



## 7 Science

**Unit:** Moon Phases

**Unit Question:** How does the surface area change with each moon phase? Explain the differences in mathematical terms and use proper names of each moon phase.

**TEKS:** 7.13A,B

### Week 1 7.13A Holt Text Chapter 24.1

Explore the revolution and rotation

Discover why we see same side of moon

Discover why we have seasons on Earth

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

### Week 2 7.13B Holt Text Chapter 24.2

Explore surface of moon for each phase

Moon Calendar: observe, draw perception of moon phase each day

Identify how the phases can change the surface area seen

Moon phase flip book

Birthday moons

[http://www.wsanford.com/~wsanford/exo/b-day\\_moons.html](http://www.wsanford.com/~wsanford/exo/b-day_moons.html)

### Week 3 7.13B Holt Text Chapter 24.3

Moon phases change visual surface area with each phase

Measure or interpret the measurement of each change of surface area to each phase

Draw and label each phase

Moon Phase cookie lab

<http://www.kepler.arc.nasa.gov/ed/ppt/SimPhases.ppt#256,1,Moon Phases Simulation>

### Resources:

Exploring the moon teacher's guide with activities NASA EG-1997-10-116-HQ

PG 17, 24, 25-32

National Geographic Society (The Earth's Moon)

Educational Services, Dept. 91

Washington, D.C. 20036

1800-368-2728