Scope and Sequence
Kim Porter

Week 1
Seasons

SCI.7.13. Science concepts. The student knows components of our solar system. The student is expected to:
identify and illustrate how the tilt of the Earth in its axis as it rotates and revolves around the Sun causes changes in seasons and the length of a day {T8} Ob. 5; and

Ping-Pong Ball Demos- http://www.science-class.net/Lessons/Space/Space%20Cycles/Seasons/seasons.pdf

Info-
http://www.nasa.gov/worldbook/wbkids/k_season.html

Week 2 & 3
Lunar Phases

SCI.7.13B Relate the Earth's movement and the moon's orbit to the observed cyclical phases of the moon {T8} Ob. 5.

Ping-Pong Ball Demos-Dana Center

Info-
http://www.nasa.gov/worldbook/moon_worldbook.html

Week 4
Eclipse

SCI.7.13B Relate the Earth's movement and the moon's orbit to the observed cyclical phases of the moon {T8} Ob. 5.

Human Models- Dana Center

Info-
http://www.nasa.gov/vision/universe/solarsystem/sun_earthday2006.html
http://www.nasa.gov/audience/forstudents/k-4/dictionary/Lunar_Eclipse.html

Week 5
Natural Resources

SCI.7.14.C. make inferences and draw conclusions about effects of human activity on Earth's renewable, non-renewable, and inexhaustible resources {T8} Ob. 5.

Research on earth and moon resources- What moon resources can humans use to live and survive on the moon?

Info- http://www.nasa.gov/home/hqnews/2005/oct/HQ_05346_HST_Lunar_Views.html
http://www.nasa.gov/worldbook/moon_worldbook.html
http://www.nasa.gov/mission_pages/exploration/mmb/inflatable-lunar-hab.html

Week 6
Erosion and Weathering

SCI.7.14.B. analyze effects of regional erosional deposition and weathering {T8} Ob. 5;

Study features of the moon. Take a field trip to Palo Duro Canyon to look and features caused by weathering and erosion. Compare and Contrast to the sites.

Info-
http://www.nasa.gov/worldbook/moon_worldbook.html
http://www.palodurocanyon.com/

Week 7
Catastrophic Events

SCI.7.14. Science concepts. The student knows that natural events and human activity can alter Earth systems. The student is expected to:
describe and predict the impact of different catastrophic events on the Earth {T8} Ob. 5;

Make craters using layers of powders to create the moon and the earth. Create impacts with meteoroids (rocks). www.lpi.usra.edu

Info-
http://www.nasa.gov/worldbook/moon_worldbook.html