**Science Goals**

Moon’s appearance changes in predictable 4 week cycle
Position of Sun in sky changes during day and seasonally
Earth orbits sun with other planets, Moon orbits Earth
Sunlight and light can be blocked to create shadows.

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**Theme/Unit**

**Solar System Unit**

**Learning Experiences:**

- Reading myths & stories about relationship of Moon, Sun and Earth [add to reading rack]
- Keeping moon journal
- Build sun dial, measuring for accurate marking, recording data on shadow change & Sun’s position
- Build 8 panel model showing different phases of the moon with pictures and labels
- Field trip to planetarium
- Writing Your Own Myth About the Moon or Sun and selecting one to act out with masks for other 3rd grades
- Writing Haiku about the Moon
- "Moon Dance Activity" to physically demonstrate why phases occur, Moon’s orbit, and Sun’s orbit
- Small model of solar system to display on inquiry table
- KWL about Moon and Sun
- Reading how orbital relationships of solar system were discovered
- Calculating size ratios of sun, moon, earth, planets
- Measuring
- Recording data on distance moved ratios

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**Mathematics Goals**

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**Language Arts Goals**

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**Reading fiction & non-fiction**

**Metaphors**

**Writing short stories/myths**

**Writing poems**

**Recording observations in daily journal**

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**Social Studies Goals**

**History connections to discovery of planets and orbits**

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**Visual Arts Goals**

**Drawing to illustrate a story**

**Building model**

**Building sets and masks**

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**Life & Social Skills Goals**

**Working in teams**

**Reaching group decisions**

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**Community Resources for Science**

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