

Resources for Phases of the Moon & Day and Night Science 4.E.1

(These three sources were located through the Thinkfinity community.)

AAAS ScienceNetLinks:

Tool – Lunar Cycle 1: the Calendar

This tool includes printable calendars where you can record your observations of the moon. In addition, it provides illustrations of the phases of the moon (a full lunar cycle) that can be printed and cut out for a hands-on activity where you can place the phases of the moon in the correct order on a calendar.

Although this tool doesn't highlight the scientific names of the phases of the moon, the names of the eight main phases (e.g., new moon, waxing crescent, waning gibbous) can be seen by rolling over their illustrations; as a result, the terms aren't distracting but are available for those who want to see them.

<http://sciencenetlinks.com/tools/lunar-cycle-1-calendar/>

Tool – Lunar Cycle 2: the Challenge This activity allows you to "drag" pictures of different phases of the moon to their correct places in lunar cycles. There are calendars that include illustrations of the phases of the moon for most days, and the challenge is for you to complete the calendars by filling them with the correct moon phases for all days. A child's voice narrates the activity, providing you with ongoing feedback and guidance (e.g., "Well done!" and "Check for a pattern."). There are three levels in this Lunar Cycle Challenge, and after you successfully complete all three levels you can print out a certificate of completion.

There is also a [printable version](#) of this activity, allowing for a hands-on activity where you can manipulate illustrations of the phases of the moon, placing them in the correct sequence in lunar cycles.

<http://sciencenetlinks.com/tools/lunar-cycle-2-the-challenge/>

Tool – By the light of the moon As the moon goes through its phases, it looks a little different each night, ranging from not there at all to full. Your group will act out how the sun illuminates the moon as it orbits Earth, to understand how the moon moves through its phases.

<http://sciencenetlinks.com/afterschool-resources/light-moon/>

Harcourt School Publishers: Phases of the Moon. A student interactive that has a split screen showing a moving model and actual pictures of the moon phases. http://www.harcourtschool.com/activity/moon_phases/

Smithsonian National Air and Space Museum. A powerpoint-like presentation that has diagrams outlining the process of rotation and shadowing.

<http://www.nasm.si.edu/events/apollo30th/moontheater/phases.html>

An individually created Glogster. Before using this in instruction, please review all aspects to ensure that the tools function and you have reviewed the content. <http://tehescmarts.edu.glogster.com/phases-of-the-moon/>

Moon Connection.com “Understanding the phases of the moon”
http://www.moonconnection.com/moon_phases.phtml

McGrawHill.ed Interactive diagram that includes the night sky and a drawing of a neighborhood and how the sun/moon light the scene.
http://highered.mcgraw-hill.com/olcweb/cgi/pluginpop.cgi?it=swf%3A%3A800%3A%3A600%3A%3A%2Fsites%2Fdl%2Ffree%2F0072482621%2F78778%2FLunar_Nav.swf%3A%3ALunarPhasesInteractive

Teacher's Universe – A Private Universe Project – A complete lesson plan.

http://www.learner.org/teacherslab/pup/act_moonphase.html

Moon Phases – StarDate Online. This resource has the phases of the moon on a month by month calendar.

<http://stardate.org/nightsky/moon>