

Title of Book: The Moon Seems To Change
Author: Franklyn M. Branley
Illustrated by: Barbara and Ed Emberley
Publisher/Year: HarperCollins/2015
ISBN: 978-0-06-238206-1

Grade Levels for Recommended Use: 8th Grade Science

TEKS:

8th Grade

(7) Earth and space. The student knows the effects resulting from cyclical movements of the Sun, Earth, and Moon. The student is expected to:

- (A) model and illustrate how the tilted Earth rotates on its axis, causing day and night, and revolves around the Sun, causing changes in seasons;
- (B) demonstrate and predict the sequence of events in the lunar cycle

Brief Summary:

Students gain knowledge on what causes the moon to change through the book, *The Moon Seems to Change* by Franklyn M. Branley. They learn day and night is caused by the Earth spinning and the changes of the lunar cycle is due to the revolution of the moon around the Earth. They then demonstrate the lunar cycle using an orange and a flashlight.

Materials needed:

- The book, *The Moon Seems to Change* by Franklyn M. Branley
- One orange and popsicle stick for each student.
(A class set would work as well but students won't get to keep the orange.)
- A black permanent marker for two or three students to share.
- A copy of the worksheet found on the 2nd page of this document for each student.
- Pencils and brains!

Suggested Activity:

After reading the book, students model the lunar cycle by having an orange represent the moon and a flashlight representing the sun. Students hold the orange out and so that they can make the orange revolve around them like the moon revolves around the sun while the flashlight (sun) is shining on them in one direction. Students record what the orange looks like on their worksheet that is found on page two of this document.

References:

The link to find this book and more like it can be found at:
www.letsreadandfindout.com

Adapted by: Christoffer J. Becho (2018)

Phases of The Moon / Lunar Cycle

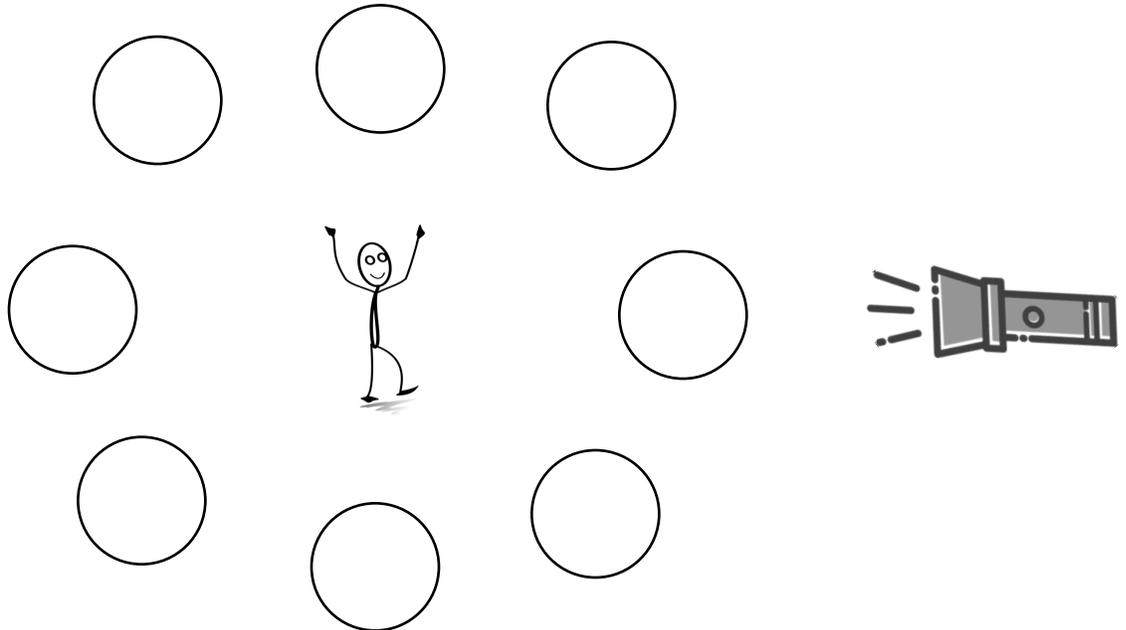
Book – *The Moon Seems to Change* by Franklyn M. Branley

Directions: Before reading the book, *The Moon Seems to Change* by Franklyn M. Branley write down everything you know about the moon and its phases. After reading the book, write the things you learned about the moon and its phases.

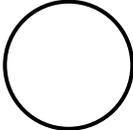
What You Know – Prior Knowledge	What You Learned – Acquired Knowledge

Activity –You, Orange, and Flashlight Model

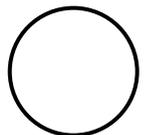
Directions: Stick a popsicle stick into an orange and hold it in front of you; with no other lights in a room except light from a flashlight hitting you and the orange, make the orange revolve around you like the moon revolves around the Earth. Record what the orange (moon) looks like below. *Shade in the dark parts of the moon and be sure the orange (moon) moves around you counterclockwise or to your left.*



Conclusion Question

The moon today, _____ looks like  what will it look like in about 3 or 4 days?

Draw out your answer here →



This book provides a simple and easy to understand facts about moon phases. The illustrations are visually appealing. This book also gives an activity that students can complete to further understand moon phases. See more. BarbaraLange, February 1, 2015. This book was packed with information about the moon, but in a way that was interactive with the reader. The author also uses experiments for the readers to do at their homes in order to gain a better understanding about the phases of the moon. The author also gave great instructions for the readers in order to perform the experiments. I loved the visuals that were throughout the book, as well as the information that I read and learned. See more. Moon phases depend on where the moon is with respect to the sun in space. For example, do you see which moon phase is being shown in the first illustration above? The answer is, it's a full moon. 2. The moon rises in the east and sets in the west, each and every day. It has to. The rising and setting of all celestial objects is due to Earth's continuous daily spin beneath the sky. Just know that "when you see a thin crescent moon in the west after sunset" it's not a rising moon. Instead, it's a setting moon. At the same time, though, 3. The moon takes about a month (one month) to orbit the Earth. Although the moon rises in the east and sets in the west each day (due to Earth's spin), it's also moving on the sky's dome each day due to its own motion in orbit around Earth.