

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

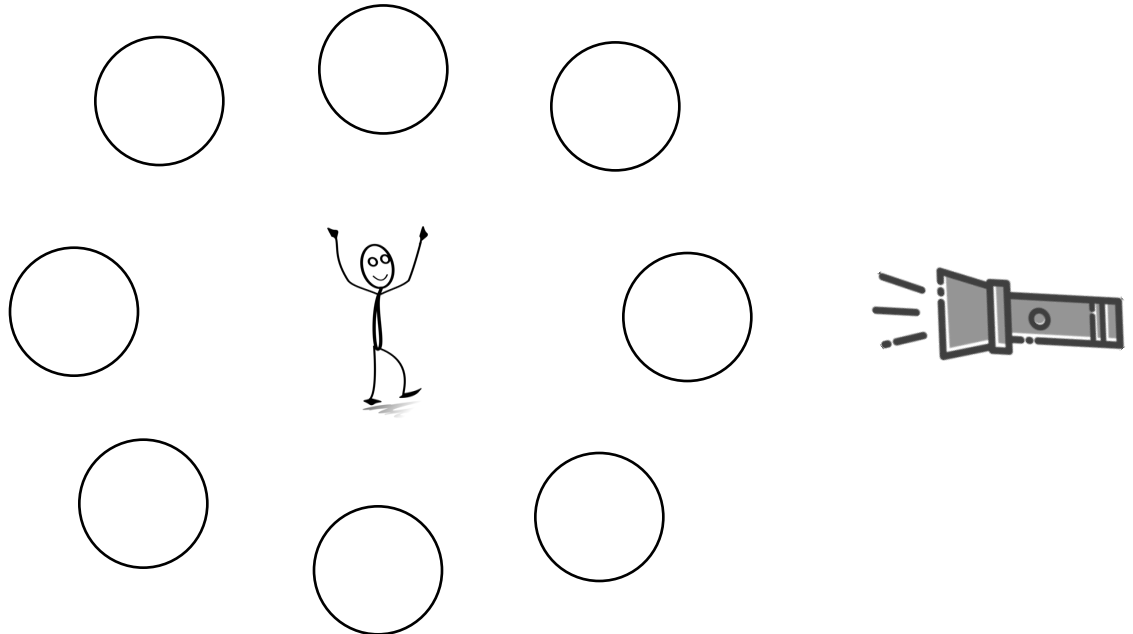
Book – *The Moon Seems to Change* by Franklyn M. Branley

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 →