

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

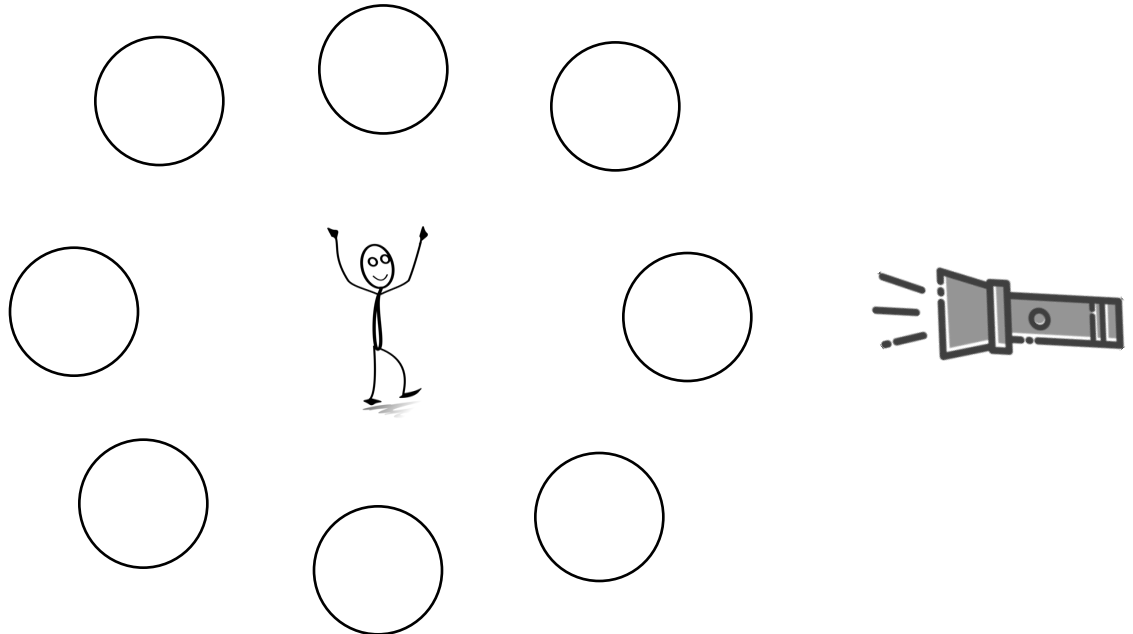
Book – *The Moon Seems to Change* by Franklyn M. Branley

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

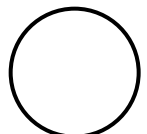
Directions: Stick a popsicle stick into an orange and hold it in front of you; with no other lights in a room except light from a flashlight hitting you and the orange, make the orange revolve around you like the moon revolves around the Earth. Record what the orange (moon) looks like below. *Shade in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



Have you noticed that the moon sometimes seems to grow and shrink? Read and find out about the phases of the moon! With a simple experiment using an orange. Join to find the hottest teen books, connect with your favorite YA authors and meet new friends who share your reading interests. Visit EpicReads.com. Christian. Romance. Column. Read new romance book reviews, posts from your favorite authors, samples, exciting digital first publications and e-book specials. Visit AvonRomance.com. Why does the moon seem to change in size? The phase after new moon is called crescent. Which phase of the moon comes after a new moon? A crescent moon can be seen just after sunset. According to page 65, when can a crescent moon be seen? It is called a new moon. What is it called when you cannot see the moon at all? Astronauts flew a rocket around the moon to see the back side. How do people know what the back side of the moon looks like? During a full moon you can see the entire moon but during a quarter moon you can only see half of the moon. What is the difference between a full moon and a The moon seems to change. New York, NY: Harper Collins. Genre: Nonfiction This book is about the moon revolving around the Earth. It discusses the moon taking about 4 weeks to make one journey and how we on Earth can only see parts of it. I will use this book the first day of my lesson. 3 Simon, S. (1984). The moon. Genre: Nonfiction This book is about how the Moon was formed and why it changes shape. This book also contains a glossary that will be nice for the students to reference. This book has a table of contents for the students to be able to quickly look at and flip to the phases of the moon. This book also has a section about The Moon and tides which will be extremely helpful in explaining the effect that the Moon has on tides. 8 Asimov, I. (1966). The moon.