

Title of Book: **On the Day You Were Born**
Author: **Debra Frasier**
Publisher/Year: **Red Wagon Books/2006**
ISBN: **9780152059446**

Grade Levels for Recommended Use: Grade 3-5

TEKS:

(B) Within the natural environment, students know that earth materials have properties that are constantly changing due to Earth's forces. The students learn that the natural world consists of resources, including renewable and nonrenewable, and their responsibility to conserve our natural resources for future generations. They will also explore Sun, Earth, and Moon relationships. The students will recognize that our major source of energy is the Sun.

(8) Earth and space. The student knows that there are recognizable patterns in the natural world and among the Sun, Earth, and Moon system. The student is expected to:

(A) measure, record, and predict changes in weather;

(B) describe and illustrate the continuous movement of water above and on the surface of Earth through the water cycle and explain the role of the Sun as a major source of energy in this process; and

(C) collect and analyze data to identify sequences and predict patterns of change in shadows, seasons, and the observable appearance of the Moon over time.

Brief Summary: *On the Day You Were Born* take students back to the ages before they were born. The mother Earth welcomes to each member of our human family. The book explains different natural phenomena, such as gravity, tides, moon phase and migrate. This lesson plan focuses on the moon phase and the movement of the Sun and Moon.

Materials needed:

- worksheet
- pencils
- computers and Internet

Suggested Activity:

The goal of this activity is to understand the cause of lunar phases by showing positions of the Moon relative to Earth and the Sun for each phase, including new moon, waxing crescent, first quarter, waxing gibbous, full moon, waning gibbous, third quarter, and waning crescent.

First, the teacher asks students if they know why the Moon shows different shapes in the sky.

Then, ask them about the reason why the Moon sometimes appears in the day time.

Second, the teacher read the book *On the Day You Were Born*.

Third, the teacher explains the moon phases and the movement of the Sun and Moon.

Forth, the teacher delivers the worksheet and open the website.

Forth, the teacher has students share the moon phase of their birthday and practice saying each phase.

References:

Find out your Moon phase. (n.d.). Retrieved from <https://www.astrocal.co.uk/find-out-your-moon-phase/>

K. (n.d.). The Lunar Cycle. Retrieved October 5, 2018, from <https://www.pearlandisd.org/cms/lib/TX01918186/Centricity/Domain/1988/Explanation - Lunar Cycle.pdf>

YouTube Video

https://www.youtube.com/watch?v=Qe9CHrmFe_Q

Adapted by: Hsin-Ni Li (2018)