Construct 3, Option 3

1st Grade Solar System
Rationale:

Students were introduced to the Solar System prior to a culminating content rich discussion. Students completed a variety of hands on activities to support domain vocabulary. After the discussion of the Solar System students observed a large scaled model of the Solar System created by 5th grade students working with 1st graders to facilitate further learning opportunities. Students were introduced to the Solar System to help support future learning. In 3rd grade, students will learn concepts such as “The Big Bang Theory,” asteroids, meteors, and comets.
Lesson Plan: Solar System
Solar System:

· Mystery Science video on the sun: “The Spinning Sky” Sun, Moon, and Stars.

· Through a Brain Pop Jr. video, students familiarize themselves with vocabulary concepts such as: sun, moon, and stars to gain a deeper understanding of how they are presented in the solar system.
Sun:
· Brain Pop Jr. video to learn facts about the sun including composition, size, and temperature.
· Students created hands on models of the sun representing the sun as a source of heat and light.
Moon:
- Brain Pop Jr. video on the moon to introduce the phases of the moon. Students created a hands-on model of the moon phases to understand the difference between and waning and waxing moon.
Planets:
· Brian Pop Jr. video discussing the eight planets of the solar system.
· Students created a mobile to show the sequencing, sizing, and characteristics of each planet.
Constellations:
- Students created a star projector of the Big Dipper.
Earth:
· Students created a model to show how the earth moves around the sun and the sun does not move.
· Through modeling and oral discussions students learned about how the earth revolves/spins by taking one day (24 hours). Through discussion, students learned how it takes one year for the earth to orbit the sun.
Sunrise and Sunset:
· Students participated in a Mystery Science lesson titled, “The Spinning Sky,” to understand how the sun appears to rise and set. Students learned that when it is day where you are, it is night for people on the opposite side of the earth.
1st Grade Video

This is a video of 1st grade students having a discussion about what they have learned about the Solar System.

https://vimeo.com/329480555

The video below is a culmination of the work completed by our 1st grade and 5th grade students to learn more about the Solar System.

https://www.youtube.com/watch?v=09By_IWvfKA
3rd Grade Video

Here is a video of a 3rd grade class having a discussion about the Solar System. This shows how the discussion spirals back in the 3rd grade for students to go more in depth while learning about the Solar System.

https://vimeo.com/329698181