Dr. V's 630's Science Weekly Summary
Week of December 11th 2017

Monday December 11th: Seasons Day 5: Students reviewed the concept that the intensity of light changed as the sun angle changed. Students watched a segment of the world wide telescope, that showed the seasons and the perspective of two aliens in space at opposite views of Earth's orbit. Students were given a Sun and an Earth on axis to model how the Earth orbits the sun. In groups of 4 students modeled the Earth moving around the sun in the correct orientation as people in the Northern Hemisphere experienced the 4 seasons. Once students had show this correctly they were given an earth with a lego person attached to massachusetts and they were asked to demonstrate day and night during the various seasons.

Tuesday December 12th: Seasons Day 6: Students continued to investigate the seasons and the angle of the sun's rays as they strike the earth Northern hemisphere. Together with the instructor students worked to complete the first page of a two page worksheet that supported this concept. Students then looked at the sun angle comparing Boston and Madagascar (near the equator). Students then completed the second page on their own. Those that complete the Day 6 packet then worked on a bonus sheet.

Wednesday December 13th:.Seasons Day 7: Students used a Pear Deck to share their thoughts in combination with a segment of the World Wide Telescope as we discussed the time our latitude spends in the light of the day during the year. Students then used the computer models to determine which cities had more or less daylight hours during different parts of the years. Students recorded their results on their Day 7 handouts and filled in the back side on their own.

Thursday December 14th: Seasons Day 8: Students answered the question - Is the distance important for seasons?
Students drew their perceived orbit of the sun on Handout: Seasons Day 8:Earth's orbit. After this student predicted when they thought the Earth was closet to the sun.
Students watched a segment of the World Wide Telescope to help them fill out the Day 8 handout. We also used a 2 slide Pear Deck to survey the class regarding the shape of the Earth orbit as well as when Dec, Mar, Jun, and Sept occur during the orbit.

Friday December 15th: Moon Day 1: Students started our unit on the phases of the moon. We used a segment of the World Wide Telescope to explore how the moon revolves around the Earth. Students started with the second page of the Moon Day 1 - What do we see from Earth? Sheet. Student saw that the moon has a face that is lit up by the sun, but only half the moon is ever visible from Earth, but it is not always the side that is lit up by the sun. Students also got a styrofoam moon on a toothpick and with a bright bulb in the room each student modeled the phases of the moon with their head as the Earth in the model.