Name:_____Date:_____

6–7 Observe, describe and interpret the movement of objects in the sky; and identify pattern and order in these movements.
2. Describe the location and movement of individual stars and groups of stars (constellations) as they move through the night sky.
3. Recognize that the apparent movement of objects in the night sky is regular and predictable, and explain how this apparent movement is related to Earth's rotation.
ELA: 3.1.3 Plan and Focus - Plan to gather information
3.4 Share and Review - Share ideas and information
4.2 Attend to Conventions

Your Mission:

_____You will create a GIF of a constellation moving in the night sky. This GIF will show the approximate location of the constellation as it moves through the night sky. Your slide presentation will also contain a written explanation of how this movement is related to the Earth's rotation.

Mission Checklist:

- ☐ Go to the Science section of Google Classroom and make a copy of the slide presentation that is titled "Constellation Blank Original"
- ☐ The star in the center of the slide represents the NOrth Start - you will not need to move this but it will be used as a reference
- ☐ Locate the star that you can copy to create your constellation
- ☐ Research an image of Ursa Major
- ☐ Reproduce Ursa Major by adding each individual star to the slide

- ☐ Position the constellation at the bottom using the North Star as a guide - this represents where we would see this constellation in September - us can use a line linking the North Star to the two stars on the right side of Ursa Major to verify your accuracy

- ☐ Now that you have created the constellation you need to duplicate the slide

- ☐ Then select all of your shapes (ctrl-a) and group them together (arrange>group OR ctrl+alt+g)

- ☐ Rotate your constellations counterclockwise just like the stars appear to rotate - rotate in the sky by using ALT + left arrow to rotate the image 15 degrees

- ☐ Next find an image of Cassiopeia and proceed in the same manner

- ☐ Make sure that the constellation is correctly in reference to the North Star

- ☐ Continue to duplicate the last slide and rotate the stars until all the seasons are represented

- ☐ Write a short paragraph detailing the movement in relation to the Earth's rotation.