Kaila Hastings
Dr. Karen Woodruff
Practicum in STEM Leadership
February 11, 2021

Data Integration using real scientific data in the virtual classroom

In order to assist my colleagues during this challenging teaching experience, I chose option option 1: Virtual Professional Development- Content focus. I selected this option because teaching science virtually is new and challenging for some of my colleagues. I feel that teachers have become content driven and have bailed on data integration in the classroom because they are unsure of how to approach it. I hope to help my fellow secondary colleagues with the incorporation of real data in their lessons. The teachers that I will ask to collaborate with will teach biology and marine biology at my high school. They will have anywhere from 20- 31 students in their classes. I will create a powerpoint with various resources that these teachers can use. I will also provide them with specific examples of data integration that I use in the classroom and how students have processed this data. Resources will include Data Nuggets, Zooniverse, NOAA,and the Cary Institute. I will demonstrate STEM integration by utilizing sources and techniques that are from this course. I will ask my colleagues how they can incorporate data and STEM into their current lesson plans. I anticipate that these teachers will see ways that they can change their current lesson plans and share it with their immediate colleagues. I would ask for them to incorporate data at least once and find out how their student perceived the data integration. The teachers that will attend the session are teachers that I work with regularly. I plan on checking in with them and asking them to create a shared folder with data integration lessons that they have created.