My college-level education involved various classes on Mycology, Horticulture, Botany, Ethnobotany, and Astronomy. Looking at the Next Generation Science Standards for Middle-Level science, I find that my college coursework fits into the requisite knowledge. In The Fungal Kingdom we learned not just about Fungi but also investigated the hierarchy of species and how biology is intertwined within kingdoms. Horticulture and Botany are areas that deal not only with a biological understanding of the world but also gave me an opportunity to understand how natural compounds decompose and interact at a chemical level. In the program Introduction to Natural Dyeing, I had to use my understanding of chemical interactions to ensure the natural dyes looked right and adhered to the materials I was dyeing. I took AP Chemistry in high school and will also use that knowledge to teach Chemicals and Interactions in the middle level. Physics is an area in which I do not have any formal schooling, but I spent most of my young adulthood doing projects with my father and grandfather who are both technical masters when it comes to practical applications of physics. I have a solid basis in the application of the laws of motion from cutting boards, measuring angles for unique tile work and putting together sledding tracks in my backyard. The goal with those was speed and safety, meaning my dad had me do mockups to test how the angles and curves would allow for a person to get quickly to the bottom of our hill without breaking any bones. My gaps in Chemistry and Physics will be filled by my involvement in the administration of middle school coursework, this has already given me the opportunity to consistently refresh my knowledge on applicable topics. I will also access online learning programs like Khan Academy to refresh on all necessary topics for teaching middle level science.