

I am no longer in a classroom, but I get to support teachers in the district in technology integration, computer science, STEM integration, and PBL. I last thought 4th grade four years ago, and I still facilitate an upper elementary STEM group with lots of 4th grade teachers, so I think I will focus on 4th and use this lesson as an example to give to them, and a way to share what I learn about Arts/STEM integration. I am thinking about two lessons. One is a [photosynthesis hyperdoc](#) I have been meaning to revise for while because I often use it as an example of a hyperdoc with teachers. Students should be led through a guided inquiry of the topic in the 5E format, in theory. I know even the 5E part needs to be revised, but also the culminating task is to create a model. I think the Arts standards could really come into play in that section where students create to process what they have learned and also show what they have learned. I am even thinking that choices of how they complete that part using different arts could be really engaging.

My other idea would be to address the NGSS standard on code. Teachers struggle with this standard, and as a former high school computer science teacher and now district lead in CS, I often try to break that standard down for teachers. In the past I have done something like this [unit](#), but it could also use a refresh, and I think that it could involve more student creation with binary code and I feel like there has to be an arts connection in there somewhere!