









3 Key Criteria for "directed" learning

- 1. Must connect to the **real world**. *(obvious relevancy)*
- 2. Must involve active learning & discovery. (physical development of skills to reinforce cognitive acquisitions)
- 3. Must involve **story-telling**. (question development, understanding & interpretation of data, and communication)

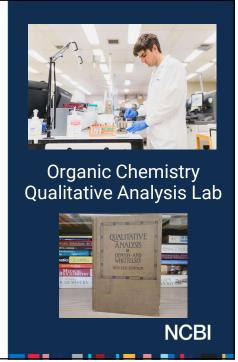


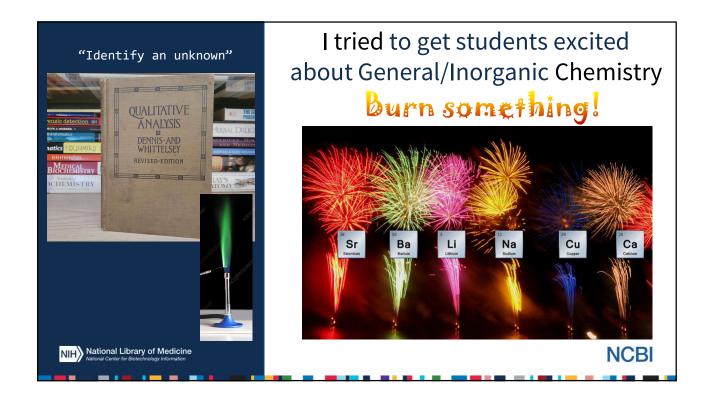


Why college science can be boring









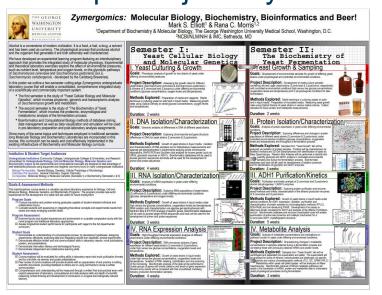


And the next phase of my curriculum development journey....

Molecular Biology & Biochemistry Labs

The BEER

NIH National Library of Medicine



So how did this end up?









NCBI

My journey continued... NCBI FieldGuide Examples



On All-Hallow's Eve

- Protein-protein sequence & structure comparison
 - Vampire Bat Plasminogen Activator
 - Human Tissue Plasminogen Activator

At Mississippi State University

 Southern blot primer for Channel Catfish Virus

At the University of Michigan Medical School

PCR primers for Huntingtin microsatellite triplet expansion



NCBI

My journey continued... NCBI @ETSU "Can you set up a homework assignment for my Genetics Lab students?" Write a news article about the gene with relevancy for a lay person Which gene How about one should I pick? for your disease? Describe the gene – tell us all about it · Find the sequences for: gene, transcript, protein Find and annotate the 3D structure Create a website to show the class & your family! NIH National Library of Medicine NCBI







