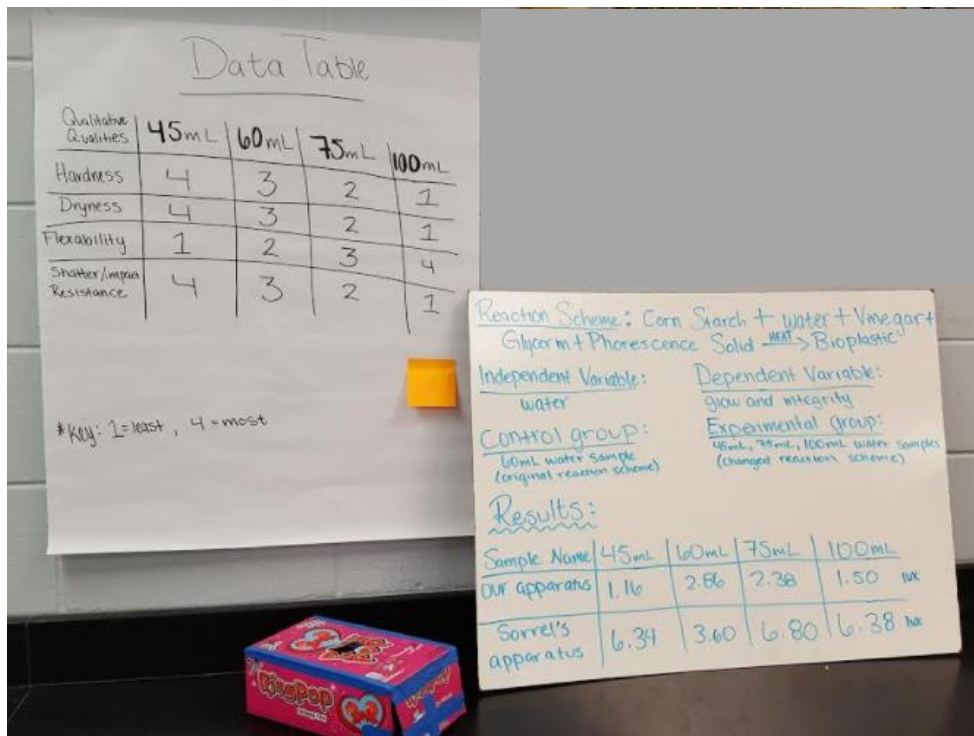
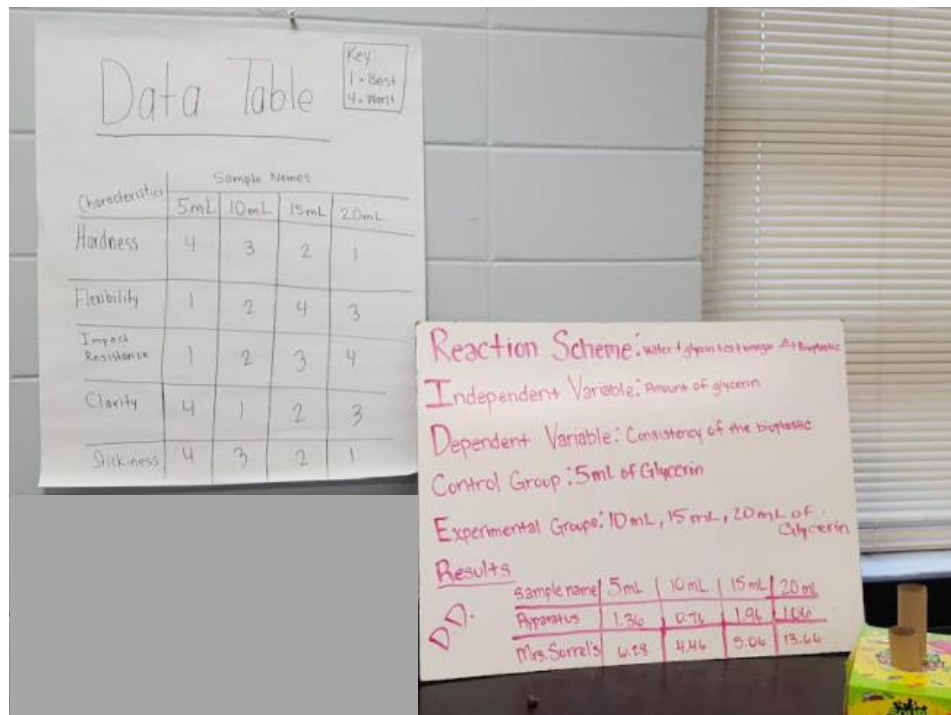


## Photos of Student Poster Examples

### Water



### Glycerin



### Vinegar

Reaction Scheme: water + corn starch + vinegar + glycerine + phosphorescence  $\xrightarrow{400^\circ\text{C}}$  bioplastic


Independent Variable: vinegar      Dependent Variable: phosphorescence

Control Group: 5ml vinegar because every group had this sample

Experimental Group: amount of vinegar because we doubled it

	5ml	10ml	20ml	40ml	lux
Mrs. Sorrell's	5.3	4.2	4.4	3.0	lux
NSA	3.2	2.7	2.8	1.8	lux
hardness	3	2	1	1	
flexibility	4	4	4	4	
impact resistant	4	4	4	4	
Sticky	4	4	4	4	

1-least      4-most



### Corn starch

Reaction Scheme: glycerin + water + powder + vinegar + phosphorescence

Independent variable: amount of corn starch

dependent variable: consistency of bioplastic

Control groups: water, glycerin, vinegar, powder, heat + time

Experimental group: cornstarch, because we added 5 grams each time

RESULTS: HLB

sample name	10g	15g	20g	25g	30g	35g
lux (in lux) apparatus	3.54	2.9	3.54	3.2	3.54	4.52
Mrs. Sorrell's apparatus (in lux)	6.32	4.52	4.62	3.94	4.72	3.58

Structural Integrity 3

Characteristics	10g	15g	20g	25g	30g	35g
Hardness	1	2	3	4	5	6
flexibility	2	3	4	5	6	1
impact resistance	← Same →					
tension	1	2	3	4	← Same →	
can it stick to the wall??	← NO →					

