



Name(s)		Project Number	
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		00020	
Project Title	I		
Are All Reds Red?			
Abstract			
Objectives/Goals The objective of this project was to determine if all reds contained the physical characteristics.	e same pigmo	ents and had the same	
Methods/Materials I ran a simple paper chromatography test using BAW (butanol, acetic	acid and w	ater) and water on	
isopropanol extracts of red ribbon, rose, tulip, carnation, ginger, and r spectrophotometer to look at the solutions and determine if they had t	ipe jalapeno	pod. I used a	
Results The first observation that I made was that the isopropanol extracts var	ied The ne	vt observation that I was	
able to make was that the different solvents that I used for my paper c chromatograms. I found from my paper chromatography tests that eac of different colored pigments. When I looked at my chromatograms u able to see differences from when I looked at the same chromatogram extracts using a spectrophotometer, and found that the extracts all had of my extracts did have peaks in similar places, but the height of those	hromatograp ch of the red inder UV (u s under visil unique abso e peaks diffe	bhy produced different l extracts were made up ltraviolet) light I was ble light. I looked at my orption patterns. Some	
of fronts) to show that the extracts contained similar patterns of pigme Conclusions/Discussion	entation.		
From this research I was able to conclude that all reds are not made up to prove this through paper chromatography, R(f)s, and spectrophotom			
Summary Statement			
The purpose of this project was to determine whether all reds contained	ed the same	pigments	
Help Received			
I used the lab space and equipment of Dr. Zavala from California Stat	e University	v Northridge.	