

NAME: _____

DATE: _____

PARTNER: _____

COLORFUL CHEMISTRY WITH FOOD DYESREPORT FORM

1. Analysis of the food dyes.

First Chromatogram

	Food Dye Brand:		
	Number of Components	Component most attracted to the stationary phase (color)	Component most attracted to the moving phase (color)
Red Dye			
Blue Dye			
Green Dye			

Attach your chromatogram below:

Second Chromatogram

	Food Dye Brand:		
	Number of Components	Component most attracted to the stationary phase (color)	Component most attracted to the moving phase (color)
Red Dye			
Blue Dye			
Green Dye			

Attach your chromatogram below:

2. Identification of different brands of food dyes.

	Number of Components	Component most attracted to the paper (color)	Component most attracted to the solvent (color)
Unknown#_____			
Unknown#_____			

3. Conclusion

Unknown # _____ is _____
(brand) (color)

Unknown # _____ is _____
(brand) (color)

4. Questions

- a. Based on the results of your chromatographic analysis, how could you distinguish between Dye-A Red food dye and Dye-B Red food dye?

- b. Explain why the different dye components travel different distances on the filter paper.

Student Signature: _____

Instructor Initials: _____