

## CALIFORNIA SCIENCE & ENGINEERING FAIR 2018 PROJECT SUMMARY

Name(s)	Project Number
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Project Title	
Electrolytes in Gatorade	
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Objectives/Goals Abstract	
The objective was to determine if different flavors of Gatorade had different	ent aniqunts of electrolytes.
Methods/Materials	
3 different flavors of Gatorade were used. The flavors were; Orange, esol	Blue, and Fruit Punch. Three
bowls of equal size were used to hold the liquids. A handmade conductance measure the conductance of the liquid by sending a electrical current through	igh he liquid. Lused the
formula (G=I/V) to convert the results to millisiemens (a unit of measure)	for conductance) to show to the
conductance of the liquid. Since electrolytes conduct electricity, so the inc	pre conductance, the more
electrolytes. Results	V
Gatorade Orange consistently had the most conductance. Gatorade Fruit P	unch consistently had the the
second most conductance.	anen consistenti jinda die die
Conclusions/Discussion	
Gatorade is commonly drunk during intense workouts to replenish lost ele	ectrolytes. As shown in the ingredients
experiment, specific flavors of Gatorade had different amounts of electroly that all flavors had different dyes. I would like to do more research on dye	es to see if it might have affected
the results. Results suggest that Gatorage Orange Claver has more electroly	ytes compared to the other
flavors, therefore being more effective.	
$(\overline{a}, \overline{a})$	
Summary Statement	
This experiment is about measuring and comparing the amounts of electro	lytes in different flavors of
Gatorade.	
Help Received	
The design for the conductance circuit was found on the internet. I also me	odified the procedure found on
the same site. I performed the experiment without help.	-