

CALIFORNIA STATE SCIENCE FAIR 2010 PROJECT SUMMARY

Name(s)	Project Number
Neil J. Patel	J0415
	50415
Project Title	
Cry Baby Cry	
Abstract	
Objectives/Goals	and the second
People all over the world use onions on a daily basis and get discover a format in which your eyes would not be irritated	
Methods/Materials	
I used the following materials for my experiment:4 red onions, a knife, a cutting board, a microwave, a refrigerator, running water, a stopwatch, a pencil, and scratch paper. The four onions were placed in	
different conditions and then cut by my test subject.	n paper. The four onions were placed in
Results	
The results of my experiment were surprising. My hypothesis was that if you cut an onion after heating it you will have less irritation to the eyes. This was proved wrong because the heated onion actually made	
Conclusions/Discussion	
My hypothesis is that heating an onion before cutting it will	result in less irritation to the eyes because the
sulfuric acid in the onion cells would evaporate. this hypothesis was proved wrong by my experiment.	
The results show that cutting an onion after heating it will make you have more irritation to the yes.	
Cutting an under running water will result in less irritation to the eyes. My explanation for these results has come after reading more about the cellular diffusion of an onion. The heating of an onion before	
cutting will make the sulfur in the onion to start cirrculating the cell at a faster rate so when cellular	
diffusion occurs in the onion the sulfuric acid will erupt out into the area of incision. When you cut an	
onion nder running water the sulfuric acid will be absorbed by the water.	
Summary Statement	
My project is about discovering new formats to cut onions with having less irritation to the eyes.	
Help Received	
Mother helped cut onions; Sister helped with presentation be	pard; Uncle helped with graphs and
application process	