



**CALIFORNIA STATE SCIENCE FAIR
2010 PROJECT SUMMARY**

Name(s) Emma F. Sheedy	Project Number J2224
Project Title The Battle Against Chlorine	
<p style="text-align: center;">Abstract</p> <p>Objectives/Goals My objective was to figure out which brand of swimsuit--Nike, Speedo, or Dolfin--held up best to chlorine.</p> <p>Methods/Materials I purchased a Nike swimsuit, a Dolfin swimsuit, and a Speedo swimsuit. I also needed chlorine, 3 buckets, and eye droppers. Water was needed as well to make the chlorine-water solution. I used 3 five-pound weights to stretch the swimsuits. I also needed a broomstick handle to hang the swimsuits on. Finally, a chlorine testing kit was necessary to maintain the proper chlorine level throughout the 2 weeks of chlorine exposure. I soaked the swimsuits in chlorine for 2 weeks, and I measured how much the swimsuits stretched by hanging a weight at the bottom of each swimsuit. I measured the amount of stretch from no chlorine exposure to 1 week of chlorine exposure and from no chlorine exposure to 2 weeks of chlorine exposure.</p> <p>Results After 1 week of chlorine exposure, Speedo had stretched .5 inches, Nike had stretched 1.25 inches, and Dolfin had stretched 1 inch. After 2 weeks of chlorine exposure, Nike and Dolfin swimsuits had 2.25 inches of stretch, while Speedo had 3 inches of stretch.</p> <p>Conclusions/Discussion I conclude that, when buying swimsuits from the many choices, purchase the Nike or Dolfin brand of swimsuit. They stretch out the least after prolonged chlorine exposure, therefore giving a swimmer better quality for their money. By having less stretch, a swimsuit creates less drag and helps a swimmer move quicker through the water.</p>	
Summary Statement My project tested which brand of swimsuit (Speedo, Nike, or Dolfin) stretched the least after two weeks of chlorine exposure.	
Help Received Parents bought supplies; father helped with some math; mother helped handle chlorine; mother took pictures	