



**CALIFORNIA STATE SCIENCE FAIR  
2011 PROJECT SUMMARY**

<b>Name(s)</b> <b>Kimberly R. Wright</b>	<b>Project Number</b> <b>J2219</b>
<b>Project Title</b> <b>When Put to the Test, Which Birds' Feet Are Best?</b>	
<b>Objectives/Goals</b> <p style="text-align: center;"><b>Abstract</b></p> <p>At the beginning of my project I had a clear idea of what I thought would happen. I believed that the duck feet would swim the fastest because they use their feet the most. However, after all my testing I found that it wasn't because they use their feet the most, but because they don't have as large of a gap in between their toes. Overall, my hypothesis was correct by answering the problem of, which bird's feet swam the fastest, but my theory was incorrect.</p> <p>When I did the testing for this project, there were some struggles along the way that I didn't account for when I first started. Luckily, I had people there to help me control my test and make sure everything was safe. For example, I had to make my technique the same, so when I had different flippers on, the times wouldn't change because of my own swimming, but because of the different style of the flippers. I also made sure I was safe at all times when doing the testing, by having an adult near the pool. Furthermore, I wore a wetsuit to insulate my body from the cold water, similar to how a ducks flipper can keep itself warm even in freezing water.</p> <p>After completing 25 laps with each style of flipper, I have concluded that the duck's flipper swam the fastest, the Penguin's flipper came in second, the Grebe's flipper came in third, and the Non-swimming bird came in last.</p>	
<b>Summary Statement</b> My project is about which bird feet can swim the fastest in water.	
<b>Help Received</b> Mother helped time my swimming; Teacher helped teach how to write papers.	