



**CALIFORNIA STATE SCIENCE FAIR  
2016 PROJECT SUMMARY**

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| <b>Name(s)</b><br>Aidan D. Garamendi  | <b>Project Number</b><br><br>36381 |
| <b>Project Title</b><br>Will Water Cooling Speed Up My Computer?  |                                    |
| <b>Abstract</b><br><b>Objectives/Goals</b><br>The objective of my project was to learn if water cooling would improve the performance of my computer.<br><b>Methods/Materials</b><br>I tested my hypothesis using my custom built computer with a fan cooling system, a water cooling upgrade and a downloaded program that assessed computer speed.<br><b>Results</b><br>There was a negligible difference in performance between the fan cooling system and the water cooling system for single, quad and multi core processing speed.<br><b>Conclusions/Discussion</b><br>My conclusion was that while the water cooling system lowers noise output and cools the CPU better, it does not improve its performance. |                                    |
| <b>Summary Statement</b><br>I determined that installing a water cooling upgrade in my computer did not improve its processing speed.   |                                    |
| <b>Help Received</b><br>I designed, built and performed the experiment myself after internet research. I got some advice on project presentation from my advisor.   |                                    |