



**CALIFORNIA STATE SCIENCE FAIR
2008 PROJECT SUMMARY**

Name(s) Aiyana Alaimo; Teresa H. Netro	Project Number J1601
Project Title Pendulum Variables	
<p style="text-align: center;">Abstract</p> <p>Objectives/Goals My objective of this project was to figure out if changing either the length, the weight, or the amplitude, would affect the swing of a pendulum, and if so, which caused the greatest change.</p> <p>Methods/Materials A PVC pipe base was built in the shape of a swing structure, to take the data. We then used 1, 2, and 3 ounce weights, a stopwatch and a ruler to test our three categories (weight, length, and amplitude).</p> <p>Results The length gave the largest difference in time. As you make the length longer, the time increases because the pendulum has a longer path to travel. Compared to amplitude and weight, which made no difference what so ever in time.</p> <p>Conclusions/Discussion My conclusion is that length has an important role in pendulum science, and that pendulums will take more time with longer lengths.</p>	
Summary Statement My project is about pendulums, and which variable will change the time of it's swing the greatest.	
Help Received Mother helped with graphs on Excell; Grandfather helped fine-tune research question; Aiyana Alaimo helped take data	