## CALIFORNIA STATE SCIENCE FAIR 2002 PROJECT SUMMARY



| Name(s)  |   | Project Number   |
|--|---|--|
| Haley A. Yolken  |   |  |
| ·  |   |  |
|  |   | 22152  |
| Project Title  |   |  |
| How Does Accelera  | tion Affect Force?  | C D  |
|  | Abstract  |  |
| <b>Objectives/Goals</b>  | t Newtons second law of physics and how   | according attacts force. I belive  |
| that the more acceleration the   | e object requires, the more force it will pre-  | acceleration affects force. Then we  |
| Methods/Materials  |   | $\langle \setminus \bigcirc$   |
| my indentations of 6 differant<br>3 grops, Slow, Medium and f  | 2 hands in clay, which was in a 14" x 4"<br>t moves to the depths of my control group<br>ast acceleration, which i then used to find<br>ng the move, so i could draw some conclu                      | . The howes where seperated into the approximate force andt  |
| Results  | $\sim$  | N  |
| depths of the clay and the app<br>force, only added about 2-10<br>about 40-60lbs. to my hands<br>the more acceleration you ha<br><b>Conclusions/Discussion</b> | ation the object requires, the more force it<br>proximate amounts of force. The slow no<br>lbs. to the weight on my hands while the f<br>while doing my moves. By studying hese<br>ve the more force. | ves only produced a little bit of<br>fast moves had more force, added<br>e results, i drew the conclution that |
| Doing this science fair project  | et taught me arot about Physics, since i ha<br>about how newtons second law of physics  | ive never explored the concept of  |
|  |   |  |
| Summary Statement<br>I am testing Newtons second   | law of physics to find how acceleraion aff  | fects force.   |
| $\longrightarrow$  |   |  |
| Help Received<br>Parents helped with supplys,  | physics teacher at the high school and gy   | mnastics coach helped with ideas.  |
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