



**CALIFORNIA STATE SCIENCE FAIR
2005 PROJECT SUMMARY**

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| Name(s) Sean B. Fennell | Project Number J1805 |
| Project Title Kitchen Surfaces: Which Is Most Durable, Granite or Marble? | |
| Abstract Objectives/Goals The objective is to determine which rock granite or marble will be most durable for kitchen surfaces. Methods/Materials Having obtained samples of granite and marble their durability was tested and measured at Testing Services and Inspection (T.S.I.) Company. Using the Tinus Olsen Test Machine, sixteen tests were performed. By comparing and measuring equal amounts of granite and marble it was determined which rock would with stand the most pressure. Results At a thickness of .813 inches marble and granite slabs were tested for resistance. Weight used from 600 lbs., to 80,000 lbs of pressure on a Tinus Olsen Testing Machine. On the #point load# test granite and marble proved to be of equal resistance. However, on the #full support# test and the #cantilever test# granite proved the more resistant in 100% of trials. Conclusions/Discussion My conclusion is that granite is more durable for kitchen surfaces rather than marble from tests performed on the Tinus Olsen Testing Machine. | |
| Summary Statement Granite or Marble - Which is Most Durable for Kitchen Surfaces? | |
| Help Received Gino Russo gave samples; Juan Diaz owner of testing laboratory; Mother, Father, and Teacher. | |