

CALIFORNIA SCIENCE & ENGINEERING FAIR 2018 PROJECT SUMMARY

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Name(s)	Project Number
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	31202
Project Title	
Book 'N Boll	
NUCK IN KUII	
Abstract	
Objectives/Goals	
We wanted to discover if there is a correlation between water concentration and liquefaction.	
We used a shake table, water, sand, bucket, and a rock. To begin our experiment, we put a specific water	
concentration with four cups of sand. We then placed a rock and measured their height. We then set it on	
the shake table at 200 rpms for one minute and recorded how far the rock sunk. We repeated this ten times for each water concentration	
Results	
At 25% water concentration the average amount of liquefaction was 5 mm. At 50% the average was 29.35	
mm. The rock at 50% water concentration sunk 24.35 mm more on average than at 25%. This shows the	
Conclusions/Discussion	
Our results supported our hypothesis. Our experiment notifies the population of	f one of the important
factors in the occurrence of liquefaction. This is a serious problem in Californi	a due to its susceptibility to
earthquakes.	
Summary Statement	
In this experiment we discovered the relationship between water concentration	and liquefaction.
Help Received	
None. We designed and carried out the procedure by ourselves.	