

CALIFORNIA SCIENCE & ENGINEERING FAIR 2018 PROJECT SUMMARY

Name(s)	Project Number
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	38636
Project Title	
Rock 'N Roll	
	$\sim \sqrt{2}$
Abstract (
Objectives/Goals We wanted to discover if there is a correlation between water concentration a	nd lique action.
Methods/Materials	nd iquenciion.
	ent, we put a specific water
We used a shake table, water, sand, bucket, and a rock. To begin our expering concentration with four cups of sand. We then placed a rock and persured the	en beight. We then set it on
the shake table at 200 rpms for one minute and recorded how far the ock sun for each water concentration.	We repeated this ten times
Results	7
At 25% water concentration the average amount of liquefaction was 5 mm A	t 50% the average was 29.35
mm. The rock at 50% water concentration sunk 24.35 mm more on average the	han at 25%. This shows the
direct correlation between an increase in water concentration and an increase Conclusions/Discussion	in liquefaction.
	of one of the important
Our results supported our hypothesis. Our experiment notifies the population factors in the occurrence of liquefaction. This is a serious problem in Californ	hia due to its susceptibility to
earthquakes.	
Summary Statement	
In this experiment we discovered the relationship between water concentratio	n and liquefaction.
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Help Received	
None. We designed and carried out the procedure by ourselves.	
Tione, the designed and carried out the procedure by ourserves.	