



**CALIFORNIA STATE SCIENCE FAIR
2014 PROJECT SUMMARY**

Name(s) Zachary Z. Jimenez	Project Number J0805
Project Title Soil Moisture Content	
Abstract Objectives/Goals My goal was to find out whether soil, gravel, or sand took the most moisture to compact. Methods/Materials Soil Sand Gravel Rammer Cylinders/Molds Straight Edge Balances Sieves Sieve Shaker Oven Results My results showed that the soil (silt sand) required the most moisture to compact. The silt sand and data indicated a maximum dry density of 121 pounds per cubic feet and moisture content of 10%. Conclusions/Discussion I concluded after compacting each type of sample that the soil took more moisture to compact than gravel or sand. -Soil has a moisture content of 10% and a maximum dry density of 121 pounds per cubic feet. -Sand has a moisture content of 9% and a maximum dry density of 118 pounds per cubic feet. -Gravel has a moisture content of 7% and a maximum dry density of 140 pounds per cubic feet.	
Summary Statement My project is about which type of soil can hold the most moisture content.	
Help Received My father, Solin Jimenez, helped conduct experiment. My mother, Raquel Jimenez, helped me finalize reports and summaries.	