

CALIFORNIA STATE SCIENCE FAIR 2011 PROJECT SUMMARY

Name(s)	Project Number
Dhiren Suryadevara	
Project Title	31040
The Power of Water	
The Tower of Water	\sim \sim
Abstract	
Objectives/Goals	
My project was to determine if the electrolysis of water is affected by the type voltage of the energy source (battery). My hypothesis was that out of the difference of the energy source (battery).	of electrolyte used, and the
electrolytes used, the MN21 battery and sulfuric acid would be the best for pro	ducing the most hydrogen.
Methods/Materials	$\mathbf{\mathcal{A}}$
Three different batteries (AA, 9V, and MN21) were tested along with three difference and sulfate and s	ferent electrolytes (table
reaction using a beaker 2 test tubes wire and steel electrodes. The apparatus was	vas booked up to a battery
and after 15 minutes the reaction was stopped and the data (showing the apound	nt of hydrogen and oxygen)
was collected and later analyzed.	
Results Table calt may add to be the best electrolyte 2/2 times (Alto) better uses the	a hast anonay source in
terms of hydrogen production. Sulfuric acid was the payt best electrolyte follow	wed by sodium sulfate. The
MN21 battery was the second best energy source and the AA battery was the	worst.
Conclusions/Discussion	
My conclusion is that my hypothesis was not proven, though I still was able to	show that the energy
future applications of alternative energy and hydrogen fuelcells.	is project can be used in
Summary Statement	
My project is shout whether the electrolysis of water can be improved for future	e widespread use in
alternative energy and hydrogen fuel cells.	e widespiedd use m
Holp Pagaivad	
Leasing a some of my materials from my teacher Ma Skilos and our family f	iand Mrs. Diskard halpod
throughout the experiment.	iena iviis. Kickara neipea