

CALIFORNIA STATE SCIENCE FAIR 2004 PROJECT SUMMARY

Name(s)	Project Number
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	20218
Project Title	
Electrolysis	
Objectives/Goals Abstract	
I wanted to see what would separate more hydrogen from salt water. Would a h	igher concentration of salt
Methods/Materials	
How I went about this project was I set up a tub and filled it with 5000 mL of w	vater at 47 degrees Celsius.
and filled them up to their top line. I would then put two electrodes attached to a	copper-wire in the cylinder
and attach the wire to a 1.5-volt battery. I would allow the battery to be attache	d for a total of five
cylinder. I kept the first trial as a base trial, and I continued this process with a 1	10%, 15%, and 20% salt
concentration at 1.5-volts. I tested a 5% concentration with 3-volts, 4.5-volts, a	nd 6-volts.
My results showed that the increase of voltage showed a significant increase of	hydrogen separated. The
amount of hydrogen separated during the voltage trials was much greater than the	he hydrogen separated
Conclusions/Discussion	
My conclusion is that an increase of voltage will separate more hydrogen than a	in increase in
concentration (of salt).	
Summary Statement	
I separated hydrogen from salt water.	
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My teacher answered some questions, and I used my school's limited resources	