



**CALIFORNIA STATE SCIENCE FAIR  
2009 PROJECT SUMMARY**

<b>Name(s)</b> <b>Gabriella P. Glover</b>	<b>Project Number</b> <b>J1112</b>
<b>Project Title</b> <b>What Is the Best Method of Desalination?</b>	
<b>Abstract</b> <b>Objectives/Goals</b> The objective of this project is to determine the best way to desalinate sea water. <b>Methods/Materials</b> In this project, I will compare three different methods of desalination; filtration, reverse osmosis and distillation. I will use the appropriate apparatuses for each of these methods to determine which is the most efficient. <b>Results</b> Distillation proved to be the most effective method of desalination. <b>Conclusions/Discussion</b> I was very happy with the results from two of the procedures. The Reverse Osmosis procedure didn't work out as I wanted. The salt water sample that was used for the experiment was contaminated with oil. Therefore, the oil formed a layer over the Reverse Osmosis membrane not letting any water pass. I found the oil in the distilled water from the distillation procedure. The oil had formed a thick and visible layer on top of the distilled water. The distillation procedure worked very well. I was surprised at the large amount of salt collected. The filtration process took a few tries. I tried using 1 filter, then 2 filters, and then finally set in with 3 filters. The process was successful. The water was flowing through the filters at the right speed with 3 filters. In the end the most effective method was distillation because it produced the greatest amount of fresh water.	
<b>Summary Statement</b> My project is about determining the best method of desalination.	
<b>Help Received</b> science teacher, mother, father	