



**CALIFORNIA STATE SCIENCE FAIR  
2017 PROJECT SUMMARY**

<b>Name(s)</b> <b>Trevor D. Schwarz</b>	<b>Project Number</b> <b>J1925</b>
<b>Project Title</b> <b>Grow with the Flow</b>	
<p style="text-align: center;"><b>Abstract</b></p> <p><b>Objectives/Goals</b> The objective of this study is to determine which hydroponic soil supplies key nutrients to the plant in a hydroponic system.</p> <p><b>Methods/Materials</b> 283 liter tank, to store the water 40 liters of GS-1 Hydro Stones 40 liters of Hydrocorn 40 liters of regular potting soil 75 seedling pot holder 2 packs of Romaine Lettuce (each containing 100 seeds) 2 Hydroponics tray (250 cm by 182 cm) Outdoor Garden A Pump (Pump water to the top of the tray) PVC pipes Jiffy Pellets Ebb and Flow System Hydroponic pots Ph Tester</p> <p><b>Results</b> The GS-1 Hydro Stones in the experiment were the best hydroponic soil in the experiment because it supplied key nutrients to the plant. The performance of the Regular Potting Soil was shown to be more effective.</p> <p><b>Conclusions/Discussion</b> The performance of the Hydrocorn for trying to help supply key nutrients to the plant was more effective than Regular Potting Soil. This means the GS-1 Hydro Stones can provide key nutrients to the plant.</p>	
<b>Summary Statement</b> I grew Romaine Lettuce seedling from start then transferred them into a hydroponic system to test which soil is the best and supplies key nutrients to the plant.	
<b>Help Received</b> My math, science teacher and administrator for ASB explained the goals I have to achieve for this project.	