



**CALIFORNIA STATE SCIENCE FAIR
2010 PROJECT SUMMARY**

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Project Title Speedy Sprouts	
Abstract	
Objectives/Goals I was trying to determine whether an acidic, basic, or neutral solution would increase the germination of a Bush bean.	
Methods/Materials I soaked six beans per solution and used a paper towel to wrap them up in.	
Results Drinking water, a neutral solution, stimulated the germination the most and the rest of the solutions did best in the following order: hydrogen peroxide (acid), potassium hydroxide (base), and hydrochloric acid (acid).	
Conclusions/Discussion the drinking water did the best while the hydrochloric acid caused the Bush beans not to germinate at all. It destroyed the inside of the beans, making it impossible for the beans to germinate. The potassium hydroxide did not stimulate nor prevent the germination process but still allowed germination to take place and the hydrogen peroxide did the second best of stimulating germination.	
Summary Statement I was trying to determine whether a more acidic, basic, or neutral solution would increase the germination of a Bush bean.	
Help Received Chemistry teacher helped dilute the solutions	