



**CALIFORNIA STATE SCIENCE FAIR
2015 PROJECT SUMMARY**

Name(s) Neha H. Shetty; Anika Srivastava	Project Number 35784
Project Title Trapping and Using Carbon Dioxide in an Environment Beneficial Device that Simulates Photosynthesis	
Abstract Objectives/Goals Our goal is to take carbon dioxide and turn it into oxygen using the process of photosynthesis, because of all the carbon dioxide in our atmosphere Methods/Materials Algae, Light, Plastic Container, Window Seal, Mesh, Water, Balloons, Vinegar and Baking Soda. We used algae for our base, so that we could have photosynthesis happen, and we also tested by using different controls (varying amounts of light, water, and CO ₂) to see which one made the most oxygen. Results Our results were that we could make a good base for photosynthesis to occur and produce oxygen. We made a device that could successfully convert a harmful gas into something not harmful. We also figured out the best way to make photosynthesis happen is to have our control, because it was very balanced in the amounts of variables. Conclusions/Discussion We concluded that our process of photosynthesis could be used to create a device to convert oxygen to carbon dioxide. We are now looking on ways to reduce the amount of carbon dioxide emitted from our lamp. We will try using solar energy.	
Summary Statement Making a device that converts carbon dioxide (a harmful gas) into oxygen (a needed and useful gas).	
Help Received Advisor gave us ideas of how to seal our device to make it airtight, parents helped find window sealing and helped us understand process of photosynthesis.	