



**CALIFORNIA STATE SCIENCE FAIR
2012 PROJECT SUMMARY**

Name(s) Bronwyn S. Gilfillan	Project Number J0308
Project Title Trash Bags Away	
<p style="text-align: center;">Abstract</p> <p>Objectives/Goals To build a hot air balloon using trash bags and other house hold items such as birthday candles, straws, string, foil, skewers.</p> <p>Methods/Materials build base, attach balloons and lite the birthday candles, then watch and see if the balloon flies. repeat making slight changes to candle count or other modifications until enough consecutive flights that the pattern can be tried with more different bags.</p> <p>Results that it is very difficult to build a balloon base that will fly all the different sizes of trash bags. But if you limit your self to 2 different sizes that are similar, one can build a base to fly more bags.I was not able to fly the smallest bags and the biggest bag using the same size base, the heat requirements and other variables made it to difficult using basic household items.</p> <p>Conclusions/Discussion I was not able to fly the smallest bags and the biggest bag using the same size base, the heat requirements and other variables made it to difficult using basic household items.</p>	
Summary Statement my project is to see if you can make a small, medium,large trash bag fly.	
Help Received Family helped with safety, and providing materials.	