



**CALIFORNIA STATE SCIENCE FAIR
2009 PROJECT SUMMARY**

Name(s) Olivia M. Lipco	Project Number J1026
Project Title Our Life and the Battery	
Abstract Objectives/Goals The objective of this project was to see if a battery would last longer being turned off and on or staying on continuously. Methods/Materials I used six flashlights, three on continuously and three being turned on and off hourly. Once each flashlight turned off and the batteries had run out, I recorded the time it lasted. When all the flashlights were recorded I rotated them, since I was doing more than one trial. All the batteries were Rayovac. Results The information that I compiled shows that in trial one the on/off flashlights had lasted a total average of fifteen hours and thirty-three minutes. The continuous flashlights in trial one averaged a total of twenty-six hours and eight minutes. On the second trial the on/off flashlights averaged a total of twenty-three hours and the continuous flashlights averaged a total of ten hours and twenty-six minutes. In the third trial the on/off flashlights lasted an average of twelve hours and thirty-three minutes, while the continuous flashlights lasted on average twenty-two hours. Conclusions/Discussion In conclusion leaving a flashlight on continuously saves more energy and you get better life out of your batteries. My observations lead me to conclude that my hypothesis was wrong.	
Summary Statement My science project examines if a battery has more life if it's allowed to rest.	
Help Received My mother helped me by taking pictures of my experiment.	