



**CALIFORNIA STATE SCIENCE FAIR  
2006 PROJECT SUMMARY**

<b>Name(s)</b> <b>Cameron A. Paskerian</b>	<b>Project Number</b> <b>J1125</b>
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<b>Project Title</b> <b>Does Turning a Light Bulb On and Off Affect Its Lifespan?</b>
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<p><b>Objectives/Goals</b> Does turning a light bulb on and off every couple of seconds affect its life positively or negatively? My objective is to find out the answer to this question.</p> <p><b>Methods/Materials</b> 15 low life 75 watt light bulbs (all same brand), 3 a/c cords, 15 light bulb sockets, 5 "button flashers," 1 Electrical Timer.</p> <p><b>Results</b></p> <p><b>Constant On</b> Bulb No. Elapsed Hours On Hours Off Notes: 1 1724 1724 0 Went off around 8:30am on 4/02/06. 2 1598 1598 0 Went off around 4:41pm on 3/27/06. 3 1665 1665 0 Went off around 5:35pm on 3/31/06. 4 1727 1727 0 Went off around 11:30am on 4/02/06. 5 1406 1406 0 Went off around 4:30pm on 3/19/06. Average 1748 1748 0</p> <p><b>On 1 Hour, Off 1 Hour</b> Bulb No. Elapsed Hours On Hours Off Notes: 6 2065 1033 1033 Lightbulb still on as of 12:00 noon on 4/16/06. 7 2065 1033 1033 Lightbulb still on as of 12:00 noon on 4/16/06. 8 2065 1033 1033 Lightbulb still on as of 12:00 noon on 4/16/06. 9 2065 1033 1033 Lightbulb still on as of 12:00 noon on 4/16/06. 10 2065 1033 1033 Lightbulb still on as of 12:00 noon on 4/16/06. Average: 2065 1033 1033</p> <p><b>2 Second On/Off</b> Bulb No. Elapsed Hours On Hours Off Notes: 11 1714 1500 214 Went off around 6:00pm on 4/6/06 12 1627 1424 203 Went off around 3:30pm on 4/2/06. 13 1600 1400 200 Went off around 7:00am on 4/2/06. 14 964 844 121 Light bulb still on as off 11:30am 4/16/06</p>
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<b>Summary Statement</b> My project is about finding the answer to the age old myth that turning a light bulb on and off does affect its life span.
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<b>Help Received</b> Dad helped in paying for electricity bill
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