

CALIFORNIA STATE SCIENCE FAIR 2015 PROJECT SUMMARY

Name(s)	Project Number
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8	
	35397
Project Title	
Indoor Home Air Quality Is Affected More by Which Wax: Beeswax, Paraffin Wax, or Soy Wax?	
	$\sum \sqrt{2}$
Objectives/Goals Abstract	
My project was to determine whether indoor home air quality is affected more Beeswax, Paraffin Wax, or Soy Wax votive candle. I believed that home air qua more by the amount of soot produced by a Paraffin Wax votive candle because wax.	lity would be affected
Methods/Materials	
Ninety votive candles were made with exactly 65 grans of wax each. Thirty very Beeswax, thirty of Paraffin Wax, and thirty of Soy Wax. Ten candles are time station. The testing station collected the soot on glass petri dishes from the our candles burn for a total of six hours, the glass petri dishes were moved to the measuring station measured to amount of light passing through the sooted petri measured with a light meter (Lux) and noted in the logbook. Observations of so were also noted.	easuring station. The
Results	
Beeswax average soot deposition was 99.4 Lux, faraffin Wax average soot deposition was 95.4 Lux. The lower to Lux reading	position was 94.3 Lux.
Conclusions/Discussion () 4 V	
My conclusion is the Paraffin Wax being apetroleum based wax produced the r home air quality. I also observed that Soy Wax cleaned up easier and Beeswax information is useful in decision making when buying candle products for your deposition from certain candles can be significant and may cause indoor levels exceed concentrations allowed in outside arc by the Environmental Protection A Government.	burned the cleanest. This home. In fact, soot
Summary Statement Indoor home aix quality is affected more by beeswax, paraffin wax or soy wax a	as an indoor candle?
Help Received	
Father helped with assembling project board.	