

CALIFORNIA STATE SCIENCE FAIR 2005 PROJECT SUMMARY

Name(s)	Project Number
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	JU33/
Project Title	1
Fuels and Their Efficiency to Produce Energy	
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Objectives/Goals Abstract	
My project was to evaluate and test four different fuels - parrafin wax, ethanol,	propane, and white gas
(similar to gasoline) - to determine which is most efficient in producing heat and energy. Methods/Materials	
Four different fuels were used to heat water in a flask. By measuring the temperature change, and the	
amount of fuel burned, I calculated the amount of energy produced in kilojoules/gram. Using	
all four fuels.	
Results	
Parrafin wax had the highest heat of combustion and efficiency, followed by ethanol, then propane, and white gas finished last	
Conclusions/Discussion	
I conclude from my results that parrafin wax was the most efficient of all four fuels. Because of its	
efficiency, its clean burning properties, and its safety in storage, it could have n in the future	nore widespread applicates
Summary Statement	
efficiency in producing energy and partafin wax was the most efficient.	to determine their
Help Received	
My parents purchased all necessary lab equipment, office supplies, and took m	e to the library.