

CALIFORNIA STATE SCIENCE FAIR 2011 PROJECT SUMMARY

Name(s)	Project Number
	Project Number
Adam Stanford-Moore	
	31817
Project Title	
A Stove for a Better Tomorrow	
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Abstract	
Objectives/Goals	
It is very important in poor countries for people to have an efficient way to coo	because of the scarcity of
fire wood. One way to save fire wood is to invent new kinds of stoves that use	ocal materials. The goal
of this science fair project is to compare the time it takes to boil two cops of wa designs. Before the experiment it was predicted that the mud-brick pocket stove	would boil water the
fastest because of its insulation and concentration of the flame.	our our of water the
Methods/Materials	
Five different stoves were made with different designs and materials. They no	luded a modern house
stove, a mud-brick rocket stove, a red-brick rocket stove, a 1 stone stove, and a different stoves beiled water with the same not and 2 away of water to each tric	3-sided stove. The five
different stoves boiled water with the same pot and 2 cups of water for each tria stove#s fire was fed with the same amount and kind of wood (excluding the mo	dern house stove which is
gas powered).	
Results	
The red-brick rocket stove consistently boiled the water more quickly than all o	f the other stoves. The
3-sided stove consistently boiled water more slowly than all of the other stoves. Conclusions/Discussion	
	nil water. Designs with
The design of a stove has an important role in the amount of time required to be good insulation and good flame concentration boil water the fastest. It was also	noted that red-clay bricks
allowed for better insulation than mud bricks.	5
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Summary Statement	
This project investigates the affect of traditional village stove design on the tim	e it takes to boil water.
Help Received	
Parents helped me gather materials and supervised me building the stoves' fires	in our driveway.
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