CALIFORNIA STATE SCIENCE FAIR 2002 PROJECT SUMMARY



Name(s)	Project Number
Karina B. Mudd	
	22040
Project Title	
Testing Variables that May Affect Geysers	\mathcal{N}
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Abstract	$(\Box \wedge \downarrow)$
Objectives/Goals To find out what variables might affect the eruption cycles of geysers.	
Methods/Materials	
In this project, different variables were tested in a simulation geyse, to see eruption process. The geyser was made from a 1 liter flask and a funel, tubing. When the structure was filled with water, and heated to a high term	the how they affect the geyser#s
tubing. When the structure was filled with water, and heated to a high ter	nperature by a hot plate, x
eruption cycle began, similar to a real geyser#s. The variables were,	
 length and diameter of the tubing, which simulates the underground pase the presence of salt, which is plentiful in geysers 	sageways of a geyser
- the presence of chicken parts, which simulates when a wild animal falls	into a geyser
Results In summery:	
The larger the volume of the structure, the longer it took to heat the water	to the point of eruption and the
The larger the volume of the structure, the longer it took to heat the water larger the eruption. The various added substances also had different affect	ets on the behavior of the geyser.
Conclusions/Discussion The larger the volume of the structure, (i.e. the longer and wider the tubin	σ) the longer it took to heat up
the water, and the eruption intervals were made longer. The chicken parts	s had a significant affect on the
behavior of the eruptions, and the salt also sreated some changes. All of t type of affect on the geyser#s eruption cycle, which suggests that geysers	the tested variables had some
features.	are very sensitive naturax
Summary Statement	
Testing variables that may affect a geyser's eruption cycle	
Help Received	
Used band saw and lathe in Dad's shop (under supervision)	
e sea band saw and fame in Dad's shop (under supervision)	