

CALIFORNIA STATE SCIENCE FAIR 2002 PROJECT SUMMARY

	Due to at Name have
Name(s)	Project Number
Phi D. Luong	
	22694
Project Title	
Creating Compost to Heat Water	
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Abstract	
Objectives/Goals	
The objective of my experiment was to harness the heat of decomposing of If water is pumped through tubing surrounded by compost, then the water c	ganic material to heat water.
compost piles generate heat as a result of decomposition.	an absorb disable heat because
Methods/Materials	\searrow
Materials:	\searrow
4 Buckets with lids	
4 Thermometers	7
2 Water pumps 24 Liters of water	
5 Gallons of organic material	
(green grass, brown leaves, soil, banana peels)	
2 Forty-feet tubing	
Procedure:	4 1 2
a. Construct a compost pile in a bucket with a coll of plastic tuoing running through it.b. Using a water pump, circulate water through the tubing from another bucket.	
c. Create an identical setup without using compost.	
d. Compare the water temperature of the control setup and the compost set	up.
Results	
The water in the bucket that was cycled through the compost was substantially warmer than the control bucket. There was as much as a 7°C difference between the two buckets of water.	
Conclusions/Discussion	
The purpose of this experiment was to be at water by utilizing the heat produced from decomposing	
The purpose of this experiment was to heat water by utilizing the heat produced from decomposing organic material. The results suggest the heat of decomposing organic material may be harnessed to heat	
water effectively.	
Summary Statement	
The hear of decomposing organic material was harnessed and transferred to heat water.	
Help Received	
Mr. Friedlander assisted in setting up the experiment; used equipment at Valley High School under the	
supervision of Mrs. Estes	