

CALIFORNIA SCIENCE & ENGINEERING FAIR 2018 PROJECT SUMMARY

Mari E. Ziegler Project Title Biomimicry House Objectives/Goals The objective of my project is to implement the systems that Cathedral Termites their mounds at a consistent temperature into sustainable housing. Methods/Materials I used a thermometer, model house with a central chimney, and a fan. I built a model that circulated air, and recorded the model's temperature over several days. Results The temperatures I took, comparing the outside temperature against the inside temperature, showed that inside my house, the temperature range was smaller th	Project Number J1131	
Biomimicry House Abstract Objectives/Goals The objective of my project is to implement the systems that Cathedral Termites their mounds at a consistent temperature into sustainable housing. Methods/Materials I used a thermometer, model house with a central chimney, and a fan. I built a model that circulated air, and recorded the model's temperature over several days. Results The temperatures I took, comparing the outside temperature against the inside temperature, showed that inside my house, the temperature range was smaller th		
Abstract Objectives/Goals The objective of my project is to implement the systems that Cathedral Termites their mounds at a consistent temperature into sustainable housing. Methods/Materials I used a thermometer, model house with a central chimney, and a fan. I built a model that circulated air, and recorded the model's temperature over several days. Results The temperatures I took, comparing the outside temperature against the inside temperature, showed that inside my house, the temperature range was smaller th	Project Title Biomimicry House	
 Objectives/Goals The objective of my project is to implement the systems that Cathedral Termites their mounds at a consistent temperature into sustainable housing. Methods/Materials I used a thermometer, model house with a central chimney, and a fan. I built a model that circulated air, and recorded the model's temperature over several days. Results The temperatures I took, comparing the outside temperature against the inside temperature, showed that inside my house, the temperature range was smaller the several comparison of the temperature over several comparison of the temperature over several comparison. 		
 The objective of my project is to implement the systems that Cathedral Termites their mounds at a consistent temperature into sustainable housing. Methods/Materials I used a thermometer, model house with a central chimney, and a fan. I built a model that circulated air, and recorded the model's temperature over several days. Results The temperatures I took, comparing the outside temperature against the inside temperature, showed that inside my house, the temperature range was smaller th 		
 Methods/Materials I used a thermometer, model house with a central chimney, and a fan. I built a model that circulated air, and recorded the model's temperature over several days. Results The temperatures I took, comparing the outside temperature against the inside temperature, showed that inside my house, the temperature range was smaller th 	have created to keep	
Results The temperatures I took, comparing the outside temperature against the inside temperature, showed that inside my house, the temperature range was smaller th		
the outside world.	an	
Conclusions/Discussion The temperatures of my model showed that, with minimal energy used, we can k a house at a consistent temperature. I have concluded that these plans could be used by builders of all types.	keep	
Summary Statement I designed a house that would stay at a consistent temperature using minimal energy principles used in Cathedral Termite Mounds.	ergy inspired by the	
Help Received My science teacher, Mrs. Morehouse, introduced me to bioimicry. My parents su		