



**CALIFORNIA STATE SCIENCE FAIR
2002 PROJECT SUMMARY**

Name(s) Courtney A.R. Morris	Project Number 22451
Project Title Artificial Incubation vs. Natural Brooding	
Objectives/Goals The objective is to determine whether Natural Brooding of Artificial incubation produces healthier chicks. Abstract Methods/Materials A square wooden laying box built to these specifications: of 2.5ft by 2.5ft with a height of 2.5ft, large base of cedar chips or sawdust, One mature female chicken at laying age, 1 mature fertile rooster, 12 freshly laid eggs, 6 egg incubator, thermometer, and scale. Six eggs were incubated and 6 eggs were brooded by the Hen who laid them. When the eggs hatched three chicks of each set of 6 eggs were weighed and their height measured. The chicks# weights and heights were of the 3 chicks of the incubated and brooded chicks were averaged and compared. Results The height average of the chicks naturally brooded was an insignificant amount of .5 inches higher than the height of the artificial incubated chicks. The weight of brooded chicks and incubated chicks on an average equal. Conclusions/Discussion In conclusion, brooding doesn#t produce less healthy chicks than incubation and Incubation doesn#t produce healthier chicks than brooding.	
Summary Statement My project was intended to find out whether Natural Brooding of chicks or artificial incubation produces chicks healthier [heaviest and tallest] than brooding.	
Help Received My Mother checked the temperature and turned the eggs during the day while I was at school.	