

CALIFORNIA STATE SCIENCE FAIR 2006 PROJECT SUMMARY

Name(s)	Project Number
Robert W. Nelson	J0212
Project Title	I
Paintball Pandemonium	
Objectives/Goals Abstract	
The objective is to determine if temperature affects the accuracy of the room temperature paintballs will be the most accurate.	a paintball shot. I hypothesized that
Methods/Materials Seventy five paintballs were divided into three groups. One third we one-third was kept at room temperature. After fifteen hours, twenty temperature environment using a VL Triton 2 paintball gun. The pa clamped into position to eliminate aiming variations. The distance measured and recorded for each shot to determine shot accuracy	vas cooled, one-third was heated and y five paintballs were shot from each aintball gun was aimed at the target and from the center of the target was
Results	
Room temperature paintballs were the most accurate, with an avera paintballs were the least accurate, with an average miss distance of slightly more accurate than heated ones, with average miss distance	age miss distance of 12.5 cm. Heated 717.7 cm. Cooled paintballs were only es of 17.1 cm.
Conclusions/Discussion I concluded that the paintballs kept at room temperature shoot more heated or cooled. I further determined that a possible explaination f when fired, expanded across the barrel. The cooled and heated pain have contacted the barrel, while the room temperature paintballs we this contact may be the cause of the inaccuracy.	e accurately than paintballs that are for the results was that the paintballs, ntballs expanded to where they would ould not contact the barrel. I believe

Summary Statement

Does the temperature of a paintball affect it's accuracy when shot?

Help Received

My mother helped me design my display board. My father supervised me as I conducted the experiment.