

CALIFORNIA STATE SCIENCE FAIR 2007 PROJECT SUMMARY

Name(s)	Project Number
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	J1120
Project Title	
Blood Pressure, Pulse, and Body Mass Index	
Objectives/Goals Abstract	
My objective was to determine which gender has higher blood pressure, pulse, and body mass index.	
I sent home student permission slips to all 30 5th/6th grade students in my class. Informed consent was	
obtained from 18 students. I weighed each student, measured the student#s height, and took their blood	
pressure and pulse. I charted my data, and I calculated the body mass index (BMI). I then calculated the mean, median, mode, and range for the blood pressure, pulse, height, weight, and BMI, Finally, I	
compared all data to find out which gender had higher results.	
Results The females had a higher pulse than males by 5 heats. The males had a higher systolic blood pressure by	
22 mm Hg, higher diastolic blood pressure by 11 mm Hg, and they were taller by 2 inches, weighed more	
by 29 pounds, and had a higher BMI by 4 kg/m2.	
I was able to prove my hypothesis for pulse and blood pressure, but was not abl	e to prove my hypothesis
for BMI. The BMI was higher in the males because 58% of the males were overweight, and by definition,	
Bivil tells us body latness.	
Commence State and a	
Summary Statement I compared blood pressure, pulse, and body mass index of 5th and 6th grade hows to girls	
r compared blood pressure, pulse, and body mass muex of 5th and 6th grade bo	ys to gills.
Help Received	
Mother helped type my charts and graphs and helped with type formatting.	