



**CALIFORNIA SCIENCE & ENGINEERING FAIR
2019 PROJECT SUMMARY**

Name(s) Iamanni Jackson	Project Number J0112
Project Title The Coanda Effect: Does Temperature Influence Its Power?	
<p style="text-align: center;">Abstract</p> <p>Objectives The objective of this experiment is to determine if temperature affects how high a ping pong ball will go in a direct airstream.</p> <p>Methods Yardstick, ping pong ball, hair dryer. Placed the ball into the hair dryers airstream to see how high it would be propelled on different temperature settings.</p> <p>Results A ping pong ball was placed in a direct airstream. Multiple trials were done, determining which temperature of air propelled the ball highest. The difference between the results was that, the colder air made the ball go higher than the others.</p> <p>Conclusions Repeated trials were run to determine if different temperatures would propel a ping pong ball higher. They concluded that colder air makes a ball go highest in a direct airstream.</p>	
Summary Statement After measuring the different heights of the ball in the airstream, I determined that colder air made the ping pong ball go highest.	
Help Received My mother and sister assisted me with the experiment, and my science teacher helped me develop my question.	