

CALIFORNIA SCIENCE & ENGINEERING FAIR 2018 PROJECT SUMMARY

Name(s) **Project Number** Ainsley E. Savant 38672 **Project Title Motivation vs. Actual Energy Abstract Objectives/Goals** The objective of this study was to measure motivation and actual energy to see drives young children and young athletes to succeed during performance. Methods/Materials 1st-3rd grade boys and girls, competitive boys hockey team, stopped ch, apple juice, food colored water, running track, hockey warmup area. Measured timed running tests with control lap, apple juice lap, and motivation lap (special water, positive words). **Results** School kids and athletes were both timed in multiple laps. were tested with an energy drink and motivation. The results showed that athletes respond more to motivation **Conclusions/Discussion** School aged young boys and girls did not respond to the placebodrink or encouraging words. Measuring young athletes on a team revealed a positive correlation to encouraging words and the placebo drink. The conclusion is that athletes on a team respond to motivation vs. actual energy. It is their brains and competitive nature (and possibly environment) that make them faster. Summary Statement ts of young groups, I found that young athletes on a team respond more to actual energy. motivation v Help Received I interviewed a psychologist from the Cleveland Clinic (Dr. Michelle Yourkvitch) regarding the placebo effect. I designed the testing format and materials on my own as well as executing the study project. My teacher, Gena Heins, reviewed the project and prompted me to ask questions to dig deeper into the