



**CALIFORNIA SCIENCE & ENGINEERING FAIR
2018 PROJECT SUMMARY**

Name(s) Calvin Z. Sway	Project Number 38482
Project Title Tool Using Jays, Phase 2	
<p style="text-align: center;">Abstract</p> <p>Objectives/Goals The objective of this study was to test the problem solving abilities of Steller's Jays.</p> <p>Methods/Materials Using clear plastic containers mounted on a wooden box I built test devices. These devices required the Jays to solve an illogical problem by pulling a string attached to a pulley to bring peanuts within reach.</p> <p>Results My results proved my hypothesis wrong. I never got the Jays to solve the problem which required them to problem solve in an illogical/abstract way. They would always find a logical way to work around the problem and get the peanuts. Jays are successful with linear problems, but struggle with abstract problems.</p> <p>Conclusions/Discussion I was able to determine what the limitations of Jays problem solving abilities are. Jays can prey on the eggs of endangered birds like Marbled Murrelets. Using feeders that require the Jays to problem solve could prove useful to distract them and keep them away from nesting areas during the short Murrelet nesting season.</p>	
Summary Statement I was able to determine the problem solving abilities and limitations of Steller's Jays	
Help Received None, I designed, built and tested by myself	