



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

Name(s) Mayra Arellano	Project Number S0402
Project Title Red Pill or Blue Pill? How Age Impacts Confirmation Bias	
<p style="text-align: center;">Abstract</p> <p>Objectives The objective of the project is to determine whether age has an impact on confirmation bias.</p> <p>Methods A random sample of adolescents and adults were given an adapted version of Wason's 2-4-6 task to assess confirmation bias.</p> <p>Results The total presence of confirmation bias for each group, measured as the proportion of times a subject tried to prove their hypothesis, was compared to determine whether the data was statistically significant using an independent t-test and standard deviation.</p> <p>Conclusions It was statistically significant at the 95% level that the adult group had lower confirmation bias than the adolescent group. The project provides evidence that age does impact confirmation bias.</p>	
Summary Statement I found evidence that adults have lower confirmation bias than adolescents.	
Help Received I designed and conducted the experiment myself. My teacher, Jeffery Adkins, reviewed my work.	