

## CALIFORNIA STATE SCIENCE FAIR 2016 PROJECT SUMMARY

Name(s) **Project Number** Sean F. Duarte 36474 **Project Title Does Password Complexity Increase with Age? Abstract Objectives/Goals** The objective of this study is to determine if people's passwords get more com Methods/Materials Gathered 3 passwords from each of the 127 different people through the use of Su ey Monkey, an online survey tool. Created an algorithm in Excel to determine password complexity The algorithm that I devised allowed me to easily determine password complexity for each password, average password complexity by age, and the running average password complexity by age. **Conclusions/Discussion** Password complexity generally increased with age, but did not decline after age 60. After age 60, 50% of the passwords were better than the passwords from younger participants **Summary Statement** that determines the complexity of passwords and how this complexity changes based on the age of a user. **Help Received** My parents helped gather most of the adult participants for my project. I also used a user-defined function, from an internet search, to determine if special characters were present in a cell in Excel.