

## CALIFORNIA STATE SCIENCE FAIR 2016 PROJECT SUMMARY

Name(s) **Project Number** Juliana Carrillo; Jaclyn Rawnsley 36802 **Project Title** Light vs. Sleep **Abstract Objectives/Goals** The object of this study was to determine how different colors of light affected ile sleeping. Out of the colors (purple, green, red and white), we believed that the purple light would are eqt our sleep the least. Methods/Materials Fitbits - using the sleep feature; we tracked our sleep patterns to determine how long it took us to fall asleep, how many times awake/restless, and how many minutes were awake/estless. Colored light bulbs (purple, green, red and white) - each tested while sleeping with light on all night. **Results** We found we were able to sleep the best with the purple light and we had be worst sleep with the red. **Conclusions/Discussion** Our goal was to find out whether light affects our sleep and low. This project showed us that purple light pt us awake and disturbed. helped us sleep calmly and longer while the red light l **Summary Statement** nding how different colors of light affected you while sleeping. **Help Received** None. We created and tested the lights ourselves.