

CALIFORNIA SCIENCE & ENGINEERING FAIR 2018 PROJECT SUMMARY

Name(s) **Project Number** Samik Pattanayak 38349 **Project Title** Does Screen Time before Bedtime Impinge the Quality Nour Sleep **Abstract Objectives/Goals** The objective of this project is to see if the use of electronic devices before bed affect the quality of your sleep. I also hope to find an amount of time you can use electronic devices before bed without affecting your sleep quality drastically. Methods/Materials I used human participants, sleep-tracking devices and the apps for the The participants used devices for a specific amount of time before bed and work the sleep-tracking devices to bed, which recorded their sleep pattern. **Results** The sleep patterns of several participants were recorded and I noted that quality of their sleep was affected by the use of electronics before bed. I found that 60% of the participants slept best when they did not use electronic devices before bed. Also 80% of them met the sleep requirements, when the using electronics before bed. **Conclusions/Discussion** The use of electronics does affect your sleep but affects kids more than adults. I found that for kids you can use devices for under thirty minutes without affecting your sleep drastically and for adults you have to find how well you sleep personally and set a limb It is concluded that it is always best not to use electronic devices before bed. Summary Statement tterns of human participants and found that the use of electronic decives before bed our sleep. affects quality of **Help Received** I conducted the experiment myself. I was helped by my teacher in reviewing the presentation.