

CALIFORNIA SCIENCE & ENGINEERING FAIR 2018 PROJECT SUMMARY

Name(s) **Project Number** Krina A. Ghadia 38200 **Project Title** Counteracting Coffee Stains: Dentifrice Whitening Properties **Abstract Objectives/Goals** The objective of my project is to determine which dentifrice is the most effecti ffee stain removal. Methods/Materials Ceramic tiles were stained using coffee for one day and then dried. The stain was attempted to be removed using different forms and types of dentificite. The tile then compared with the shade guide for measurement. **Results** The Sodium Hypochlorite had the most whitening effect out of every type of dentifrice, although every type and form of dentifrice had some whitening effect. **Conclusions/Discussion** Each dentifrice had a varying amount and type of active ingredient that was used to eliminate the stain, however the Sodium Hypochlorite had the strongest stain removing ability and in the largest concentration. Therefore, Sodium Hypochlorite, or off the-shelf bletch, removed the stain most effectively. **Summary Statement** ctive dentifrice with varying active ingredients was in removing coffee stains. Help Received Dentist Vinay Govindji answered my questions about whitening toothpastes, however I created and executed the experiment without assistance.