



**CALIFORNIA STATE SCIENCE FAIR  
2015 PROJECT SUMMARY**

<b>Name(s)</b> Victoria M. Mott	<b>Project Number</b>  35158
<b>Project Title</b> Equine Teeth Cleansing Tray	
<b>Objectives/Goals</b> My objective is to provide a simple, cost effective and preventative measure towards combating oral disease and the development of plaque on horses teeth which may lead to other underlying conditions and illnesses. My goal is to refine and improve my original prototype to meet the needs of horses and their owners world-wide. <b>Abstract</b> <b>Methods/Materials</b> Materials: 1.) Non-corrosive T-Hinges, used for support and mobility of the tray. 2.) Gentle but firm removable bristles used for cleaning the horse's teeth. 3.) A thick, durable plastic/wood non-corrosive tray used to support the bristles. A clasp lock at the top and extra support on the sides provided by corrosion resistant chain on each side of the tray. Methods: I used hinges for the support and mobility of the tray. I will use the gentle yet firm removable bristles for putting in the tray. This is what will clean the horse's teeth, by the horse grabbing at food that is placed between the bristles. I will also use a durable tray to support the bristles. <b>Results</b> I believe that my invention will work due to my observation of how a horses mouth moves and the way it eats. My theoretical results are that my invention will help prevent oral illnesses in horses by providing a mechanism for regular, daily cleansing that is difficult to provide, but with my simple machine that is not seen on the market as of today, I believe it will help reduce dental bills for everyone that owns a horse. <b>Conclusions/Discussion</b> I am in the process of making a larger prototype that will fit science fair regulations. I am modifying the type of materials used for the tray and replaceable bristles which can vary in softness due to a horses age and in efforts to not damage their gums in any way. When plaque develops it can break off and travel into the blood stream and cause a number of other illnesses that are hard to detect because you can't always determine the underlying cause. This is true in humans as well as animals. I'm confident that once my large prototype is completed and tested I can prove my theory and objective for demonstration at the state science fair.	
<b>Summary Statement</b> To help prevent oral disease and decay in horses, as well as other dental related illnesses.	
<b>Help Received</b> My parents helped with providing supplies and my dad did what I couldn't do with the saw.	