



**CALIFORNIA STATE SCIENCE FAIR  
2017 PROJECT SUMMARY**

<b>Name(s)</b> <b>Orion S.S. Walter</b>	<b>Project Number</b> <b>J1132</b>
<b>Project Title</b> <b>Environmentally Happier Meal: Nature's Lovin' It!</b>	
<p style="text-align: center;"><b>Abstract</b></p> <p><b>Objectives/Goals</b> With 1.2 to 1.3 billion McDonald's Happy Meals being sold worldwide, a Happy Meal produces a lot of material waste. My objective is to reduce at least one-third of the material waste from the Happy Meal in order to make it more environmentally sustainable.</p> <p><b>Methods/Materials</b> I used various measuring devices to determine dimensions as well as used cutting devices, various papers, cardboard, paint, plastic, and adhesives to generate my prototypes.</p> <p><b>Results</b> By re-engineering the McDonald's Happy Meal, I exceeded my objective which was to reduce one-third of its material waste, and by doing so I generated a more environmentally sustainable Happy Meal.</p> <p><b>Conclusions/Discussion</b> By engineering new versions of the McDonald's Happy Meal, I have reduced over one-third of its original material waste, and by doing so reduced its pollution, its plastic production, as well as made this product more environmentally sustainable.</p>	
<b>Summary Statement</b> I successfully created several, significantly more environmentally sustainable versions of a McDonald's Happy Meal.	
<b>Help Received</b> I investigated, designed and then developed my prototypes on my own. My parents assisted in editing, cutting, printing, and gather supplies. I did listen to feed back from former science fair judges.	