



**CALIFORNIA STATE SCIENCE FAIR  
2016 PROJECT SUMMARY**

<b>Name(s)</b> <b>Nimai Talur</b>	<b>Project Number</b> <b>J0631</b>
<b>Project Title</b> <b>Faster Cleaner Composting: The Effect of Amylase on the Decomposition of Biodegradable Plastic</b>	
<b>Abstract</b> <b>Objectives/Goals</b> The objective of my experiment is to measure the effect of amylase on the decomposition of a biodegradable plastic spoon by varying the amount of added amylase. <b>Methods/Materials</b> Amylase formula, aluminum containers, water, beaker, gloves, kitchen scale, biodegradable plastic spoons. Added different amounts of amylase and measured the decomposition of the plastic spoons over four weeks. <b>Results</b> As I added more amylase, the mass of the spoons decreased. The mass varied indirectly with the amylase. <b>Conclusions/Discussion</b> After comparing the masses of the biodegradable plastic spoons, I concluded that the more amylase added, lower the mass was after four weeks.	
<b>Summary Statement</b> My experiment shows that when more amylase is added to the spoons, the more the mass decreased and faster the spoons composted.	
<b>Help Received</b> My science teacher helped me by giving me research ideas and reviewing my experiment, and my parents also provided me with helpful information throughout my experiment.	