

CALIFORNIA STATE SCIENCE FAIR 2011 PROJECT SUMMARY

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Name(s)	Project Number
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	31488
Project Title	
Does Sugar Affect a Mealworm's Weight?	
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Abstract	
Objectives/Goals	
The objective is to determine if sugar will affect the weight of mealworms. Methods/Materials	(\bigcirc)
Prepare 16 containers with a cup of oats and ¼ of a potato. Separate the 16 con	tamers into four groups. In
all the containers, gently lay ten worms. The first groups label as the control gr	Label each container
Prepare 16 containers with a cup of oats and ¼ of a potato. Separate the 16 con all the containers, gently lay ten worms. The first groups label as the control gr A, B, C, or D without repeating letters. Add the varying amounts of sugar to the	containers and label.
Weigh worms at appropriate times and record data in log book. Repeat the pro-	ess daily for the total
allotted time. Results	
The group of mealworms without sugar reached an average weight of 2.5 gram	s per worm on days 10
The group of mealworms without sugar reached an average weight of 25 gram through 13. The group of mealworms with 2T of sugar reached and average we	eight of 0.5 grams per worm
on days eight and nine. The group of mealworms with T of sugar resched 0.7 The group of mealworms with 6T of sugar reached and average weight of 0.5 g	grams per worm on day 13.
The group of mealworms with 6T of sugar reached and average weight of 0.5 g	grams per worm on days 11
through 13. Conclusions/Discussion	
The conclusion of this project was that 4T of sugar reached the greatest weight	per worm. My hypothesis
The conclusion of this project was that 4T of signs reached the greatest weight was correct because 4T of sugar did increase the veight of the mealworms. Tw	o tablespoons of sugar
wasn#t enough sugar to make an impact on the worn#s weight. Six tablespoon	s of sugar was too much
sugar for the worm#s diet. So if you needed to #gut load# your mealworms, to to enjoy yourself, then it would be a smart decision to add sugar to the worm#s	feed your livestock or even
to enjoy yoursen, then it would be a siliar decision to add sugar to the world #s	diet before it is consumed.
Summary Statement	
The project will determine if different amounts of sugar will affect mealworms	weight
The programme it different amounts of sugar win affect mearworms	weight.
Holy Descined	
Help Received	
none	