

CALIFORNIA STATE SCIENCE FAIR 2016 PROJECT SUMMARY

Name(s)	Project Number
Nithika Karthikeyan	
	36451
Project Title	
The Effect of Water Beads on the Crop Yield of Bok Chord And And And And And And And And And An	
	$\sum \sum$
Objectives/Goals Abstract	
The objective of this experiment is to find if crops can be grown in alternative g	nowth mediums that will
consume lesser amounts of water, while maintaining high crop yield and suffice will allow crops to be grown during a drought	ent nurition levels. This
Methods/Materials	<u>_</u>
9 Bok Choy seedlings, expanded water beads, nitrogen fertilizer, soil putrition	peasuring tool(Luster Leaf
growth Compared all of the plant growth observations using health factor (a yu	peric value given to visual
wilting, visual color, and sizes of the leaves). Measured the mount of vitamin (C in the plants and
compared to see which had the best overall vitamin C concentrations.	
Overall, the plants in water beads only did the best in terms of health actor and	vitamin C concentration.
this supports the objective of my project because the plants in different medium	s, even the mixture of soil
and water beads, did better than the most common growth medium, soil.	
The three trials of my experiment revealed that the change in the growth medium of plants does change	
the health factor and vitamin C concentration (The plant. Inconclusion, water	beads provided the highest
crop yield and nutritional value while conserving the amount of water used to g	row the crops.
\bigcirc	
As the growth medium kept increasing with the amount of water heads in them	the crop yield and vitamin
C concentration increased.	the crop yield and vitanini
Help Received	
My dad helped me with the experiment partially. Other than my dad, I conducted	d, created, an presented
the experiment by myself.	· •