

CALIFORNIA STATE SCIENCE FAIR 2015 PROJECT SUMMARY

Name(s)	Project Number
Jessica Banuelos; Marlen Chavez	
	/ \
	35147
Project Title	Q None
Pressure Resistance	
Objectives/Goals Abstract	
The purpose of our experiment is to help the companies that have to deal with the	ressure and packaging.
With this, which fruit, watermelon, cantaloupe or honeydew melon, has the stromost pressure.	ngest layers to resist the
Methods/Materials	\searrow
3 Mini Watermelons the same size (16.51 cm), 3 Cantaloupe the same size (16 Melon (16.51 cm), 4,000 Rubber Bands, Notebook and pencil, Table 116.078,	51 cm), 3 Honeydew
record/take pictures, Measuring Tape	in ingn, Camera to
Mathod #1 Ween Dubben Danda around the fruits to see the great and have	11.
Method #1-Wrap Rubber Bands around the fruits to see the pressure it can hand Method #2- Drop the fruit from 116.078 cm high.	ile.
Results	
The Honeydew melon sustained the most with an average of 685 bands and 12 drops. The cantaloupe took 555 rubber bands with 4 total drops and the watermelon took an average of 517.5 bands.	
Conclusions/Discussion	
Based off of our experiment, we can conclude hat the Honeydew Melon has a stronger outer shell than watermelon and melon. Honeydew nelon resisted up to 168 ands more. We realized that the fact that the	
fruits dripped #juice# means that the obviously cracked of meaning it released pressure. We believe	
that if this hadn#t occurred the fruits would have burst at a faster pace since the pressure would#ve built up even more if it hadn't escaped. With the second method having up to 8 more drops than the others. The	
up even more if it hadn't escaped. With the second method having up to 8 more drops than the others. The method would have caused the pressure in the insides to be disturbed.	
Our hypothesis turned out wrong with Honeydew melon turning to the top. The Melon had the top results from all the methods and experiments. The outcome of our experiment would lead up to many questions; What packing materials would support the fruit the most? Does hazardous chemicals in sprays make fruit	
What packing materials would support the fruit the most? Does hazardous chemicals in sprays make fruit	
stronger than those without?	1 7
Summary Statement	
Our project demonstrates how the pressure resistance of a common fruit can im	pact product distribution
and transportation.	
Help Received	