

## CALIFORNIA SCIENCE & ENGINEERING FAIR 2018 PROJECT SUMMARY

Name(s)	Project Number
Claire M. Boles	
	38780
Project Title	
Know the Flow	
	h > 0
Objectives/Goals Abstract	
How does the size of different granular materials affects their mass flow rate th	ough a funnel? I will
compare materials with different dimensions and textures.	
Methods/Materials	
Stopwatch, millimeter ruler, scale, funnel, various sized materials (tice, beans e material. Compare three different time trials to determine how long it take the	teg, platform to hold the
though the funnel.	interent materials to now
Results	
The smaller the mass of the object the faster the mass flow test. Objects with a	smooth texture and small
mass had an increased speed.	
Conclusions/Discussion	on the texture of the
Within the accuracy of the measurements, the smaller the mass and the smooth granular materials allowed for the fastest mass flow rate. The three trials all pro-	wed the same data
grandial materials anowed for the fastest mass now at. The theorem and pre-	wed the sume data.
$\sim \sim $	
$\sim$ $\checkmark$	
Summary Statement	
I measured the size of different granular materials and compared their mass flow	w rate through a funnel.
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Halp Baggiyad	
Help Received	duated the experiment by
At school I got help with the scientific method. I designed the platform, and con myself.	nuclea the experiment by