

CALIFORNIA STATE SCIENCE FAIR 2015 PROJECT SUMMARY

Name(s)	Project Number
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	35054
Project Title	
Testing Meteorite Impact Distances on Triton	
Abstract	
Objectives/Goals	the model helped
Create an accurate model of Triton to test physical impacts from a meteorite. To understand how different distances and angles change the force at which the	meteorite would impact
to understand how different distances and angles change the force at which the the moon, seeing whether the impacts are deep enough to bore through more the Methods/Materials	an one layer of rock or ice.
To make the model of Triton as accurate as possible, the model had to have the Calculations on density, velocity, and acceleration were used when making the	ame density as Triton.
Calculations on density, velocity, and acceleration were used when making the	model and testing the
force of impacts. Each layer of the model was divided equally and frozen the sa order to account for the geysers on the moon that constantly recover the surface	. Once the model was
complete, it was tested multiple times or until the model showed severe damage calculated based on the information collected before testing.	e. The force was then
Results	
Certain effects of the surface were more common than others. The distances and did change what happened to the top surface and the layers under eath when sh	d angles from the model
on the data and observations, higher forces had a greatly different effect on the model than the lower	
on the data and observations, higher forces had a greatly different effect on the model than the lower forces. The highest force was about 0.4 Newtons, which occurred when being closest to the model, and the lowest force was about 0.0019.	
Conclusions/Discussion	
Some tests had large impacts while other tests merely made a chip in the surfact some effect to the moon. With this, many more theories can be constructed to to	e. Every test did have
depth each meteorite creates.	est further on the impact
Y Y	
Surrama was Stationard	
Summary Statement A mode of Triton was created to test whether the angle or distance a meteorite	is from the moon will
affect the force at which it impacts the surface.	is from the moon win
Help Received	
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