

CALIFORNIA STATE SCIENCE FAIR 2002 PROJECT SUMMARY

Name(s)	Project Number
Sonia Samra	Â
	22382
Project Title	\mathcal{C}
Opilliones: Harmonic Oscillators	
Abstract	
Objectives/Goals	as the oridor the mass
My objective was to learn how a spider#s mass effects it#s vibrations. I believe increase the vibrations will decrease.	as the spider#s mass
Methods/Materials	
Six of the same type spiders with different mass. First spiders were massed The attached to the computer and on the other side was a laser hitting the cell. The sinbetween. Every two times the beam was broken that was one vibration. Each	pider was placed
inbetween. Every two times the beam was broken that was one vibration. Each	spider was tested four
times. Results	
The spider with the greatest mass had the least vibrations compared to the least	mass spider.
Conclusions/Discussion My conclusion is that heavier spiders vibrate at a slow of rate this is a example	of harmonic motion My
hypothesis was supported by my data. The research of harmonic motion helped	l me develope a good
hypothesis.	
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Summary Statement	
My project is about figuring out how mass effects the harmonic motion of a spie	der.
Help Received	
Fresho State University used scale under supervision of a university student: Su	khdeep Bassi
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