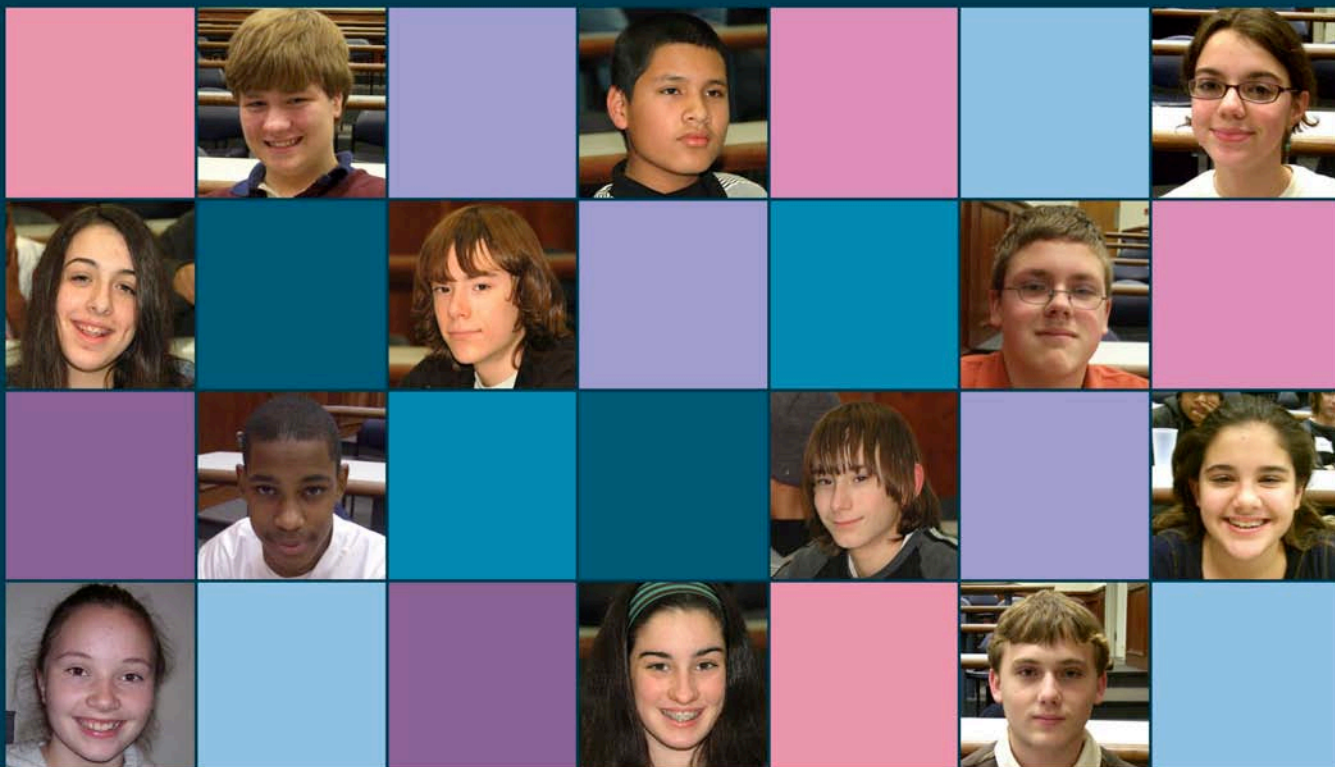




How Things Work

The Stars Challenge at Monmouth University



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Winter 2007

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The Stars Challenge

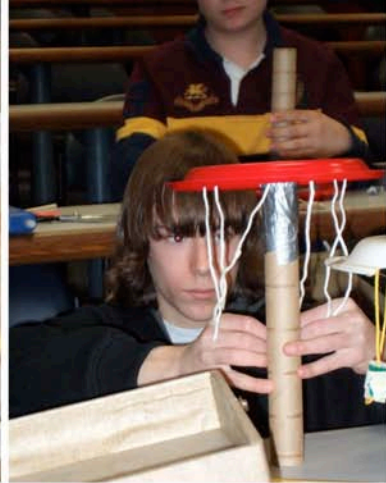
By learning the laws of nature, everyday observations become understandable as well as enjoyable. By exploring the mysteries surrounding so many natural occurrences, it is my hope that you have become connected to your world, interacting with it rather than feeling yourself mystified by it.

From the very beginning of the course we tested the laws of nature by constructing devices that demonstrate these laws. We sat on a bed of nails—NO PAIN. We put 30,000 volts of electricity on our bodies causing our hair to frizz-out—AND SURVIVED. We learned why a car is the safest place to be during a lightning storm—SAVING OUR LIFE SOME DAY. We balanced a fork and spoon on a nail—AMAZING. We made a “tornado” in a bottle—DON'T LET IT OUT! Look at all we accomplished by just knowing a few laws of nature. Continue your study of science! The laws of nature and a whole world of understanding await you!

Mr. Valente



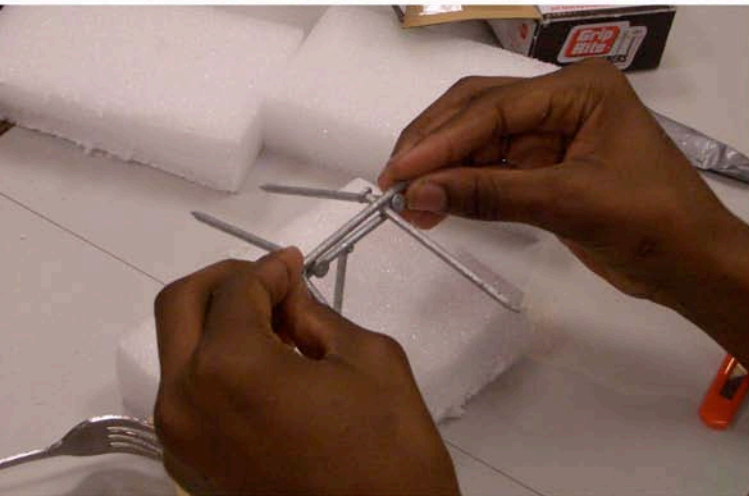
Why don't Molly, Cody, and Anna get wet?



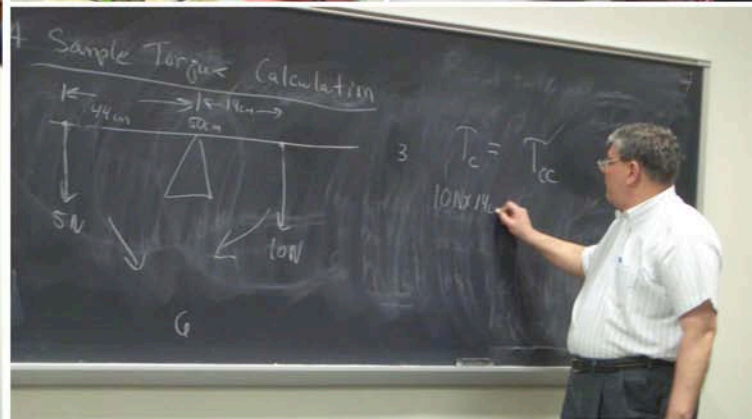
Omar, William and Max get ready to swing for physics.



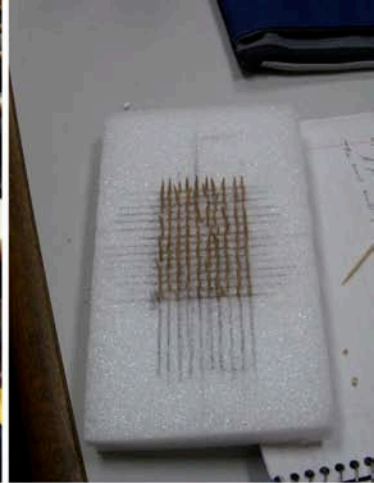
While others see water, Shaquille sees a tornado!



Patrick and Omar do a physics-balancing act.



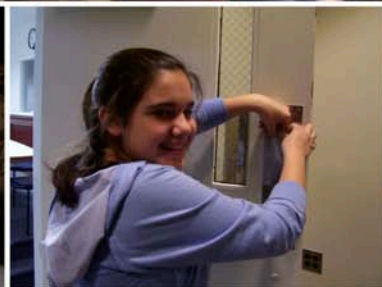
Shaquille and Anna master the torque stick. Sam and Molly are determining the weight of a clamp.



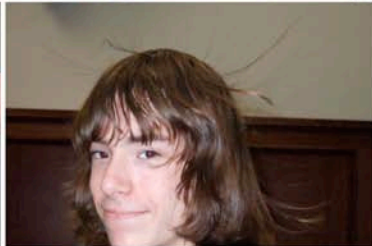
Cody, Anna, Molly, and Deanna sit on a "bed of nails". No pain! Instead, physics gain.



Anna and William demonstrate the pun of physics.



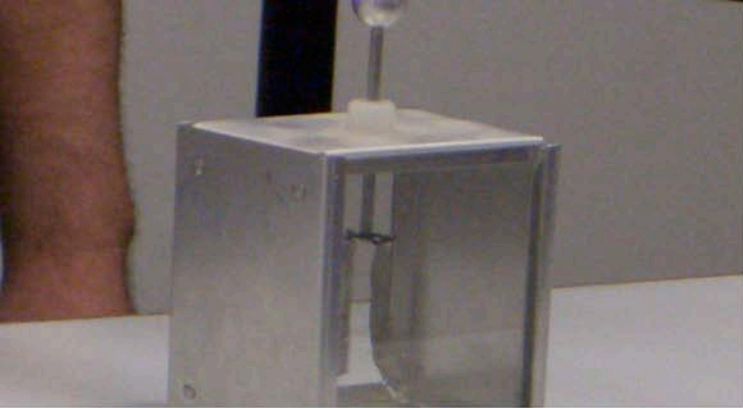
Molly does not liked to be shocked!



Clair, Max, Sam, and Alexis love static electricity.



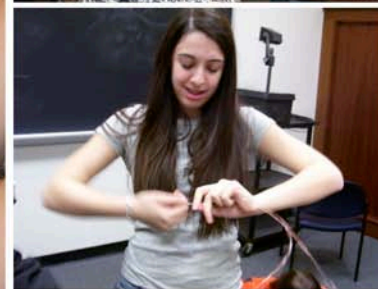
Frizzing out on the Van de Graaff.



Max gets a shocking physics experience.



Anna mediates for physics knowledge. Deanna figured out the solution to the problem.



Patrick is figuring out the finishing touches for his game.



Mr. Valente had to explain what the round black disc was. Then the fun with sound started. Who would have guessed a cup and string could sound like a chicken?



Lexi was fascinated by her magic finger.

