

Math and Science Camp News

Day 4

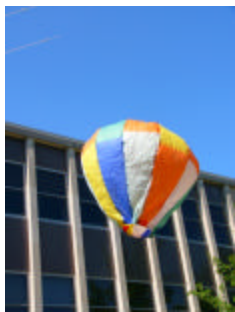
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<http://www.ipfw.edu/physics/msc/msc.htm>

Campers Fly Balloons, Pentamino, and Graph!

This morning, the campers re-tried their balloons with greater success. There were several flights that went above the trees and



A hot air balloon flying by Kettler Hall.

miraculously, all of the balloons were recovered. After the balloon launches, the campers went inside and continued working on pentaminos which helps strengthen spatial reasoning.

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Next the campers worked on meas-



urement and graphing: first blowing up rubber balloons and measuring their size, then finding out how far the balloons would fly. They were looking for a correlation between the

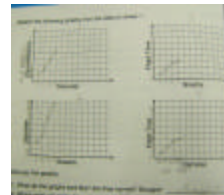
number of breaths to blow up a balloon and how far it went.

Finally, the campers used a set of

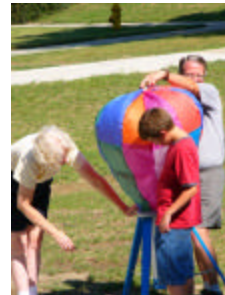


Campers making the shapes for classification.

four triangles to create a number of different shapes and worked on classifying those shapes.



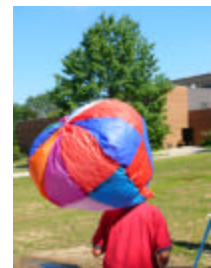
One of the campers graphs



Nick prepares to launch his balloon.



Miles, Andrew, Nick, Bob (Volunteer), and Charles work on pentaminos.



Good Catch →

Campers do cars and chemistry!

This afternoon the campers tested their hypotheses about the distance the cars travel. Through the investigation, the campers found that the weight did not really make the cars go faster and that a lighter car did not go farther re-discovering Galileo's findings that a more massive object will not accelerate more than a less massive.

Four car races were run in two categories. Free weight, in which the campers performed measurements to determine the supposedly optimum weight of their car and weight restriction in which all cars are of the same weight. In the free weight category



there were two races: distance and speed. In the distance category, the winners were



Charles, Nick and Dominick. In the speed race, the winners were Charles, Brianna and Nick.

In the weight restriction category the winners for speed were Dominick, Andrew and Aryan.

Congratulations to all!