

Lab Report

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Purpose: To analyze force by using graphical analysis..

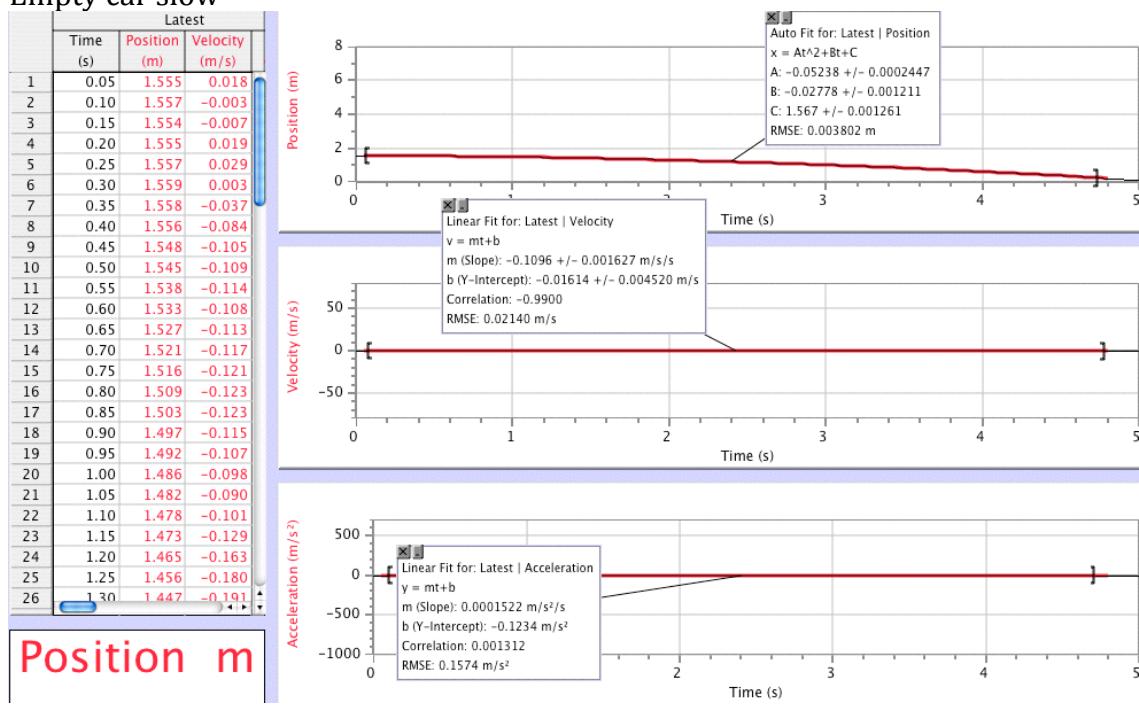
Background: We used fan carts to determine force, and we used a computer to record the data.

Materials: Computer with logger pro program, fan cart, flat surface area, clicking tracker, weight, and incline.

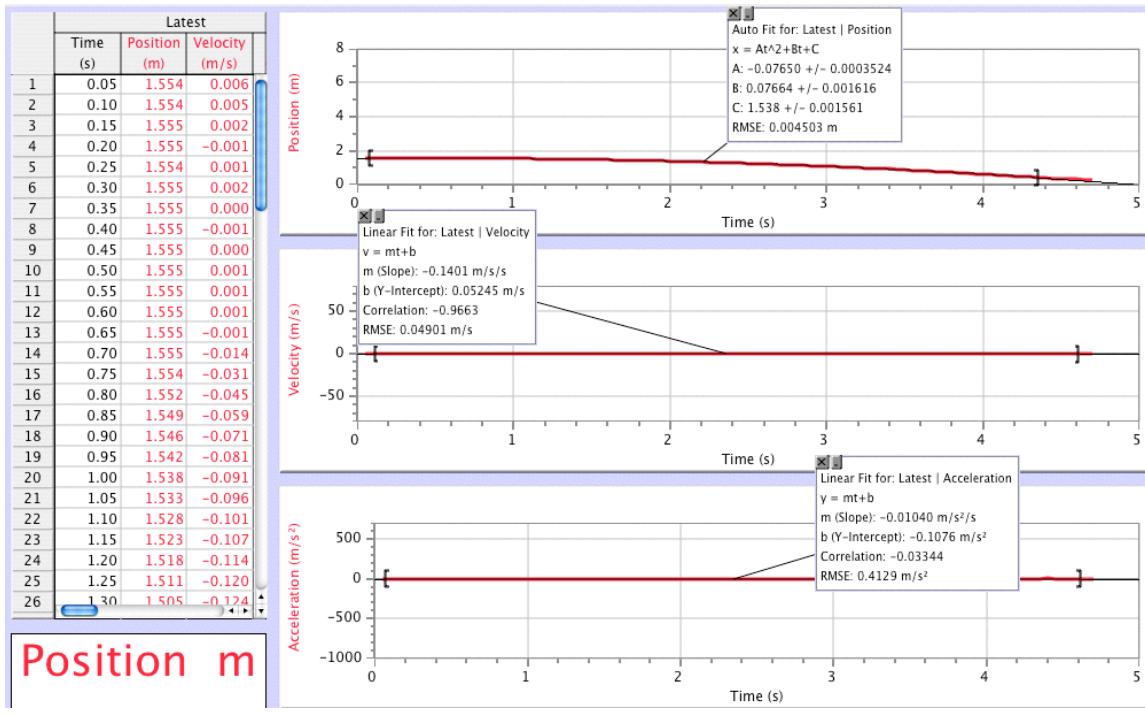
Procedure: You put the fan cart on a flat surface and you set up the logger pro program and the clicking tracker. Once everything is in alignment you start the fan on low with out a weight on it, and then you start the logger pro program and the clicking tracker. Let the fan cart go and record the data on the logger pro program. You need to repeat these steps for the following trials: fan on high, fan on low with weight, fan on high with weight, low incline and high incline.

Data:

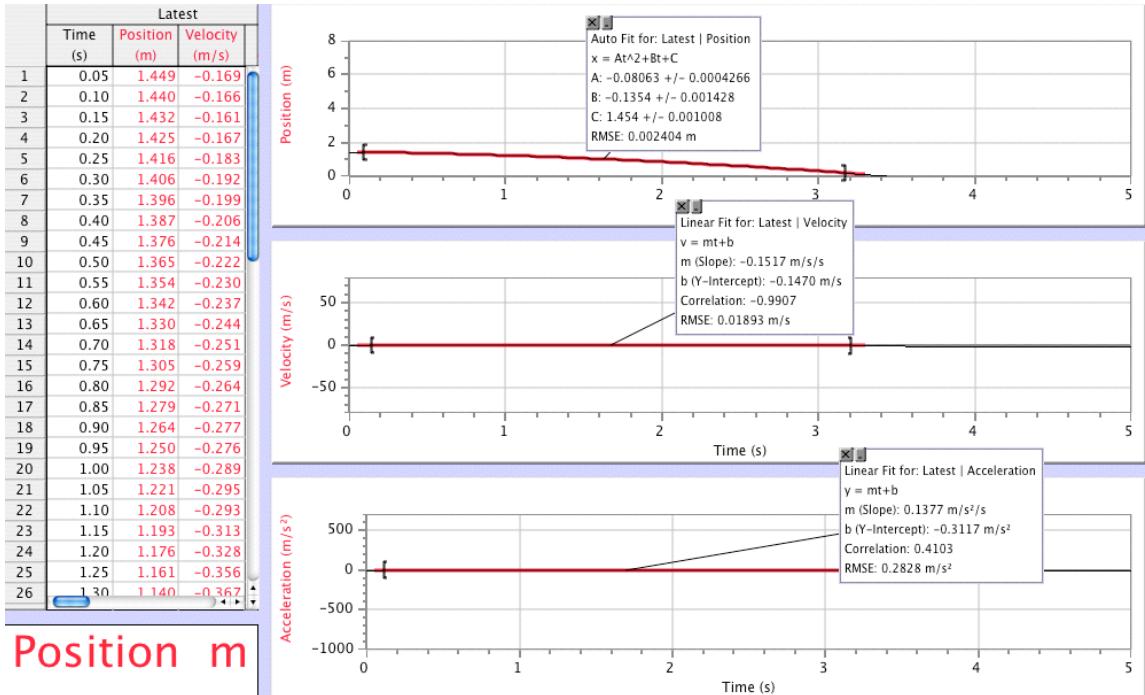
Empty car slow



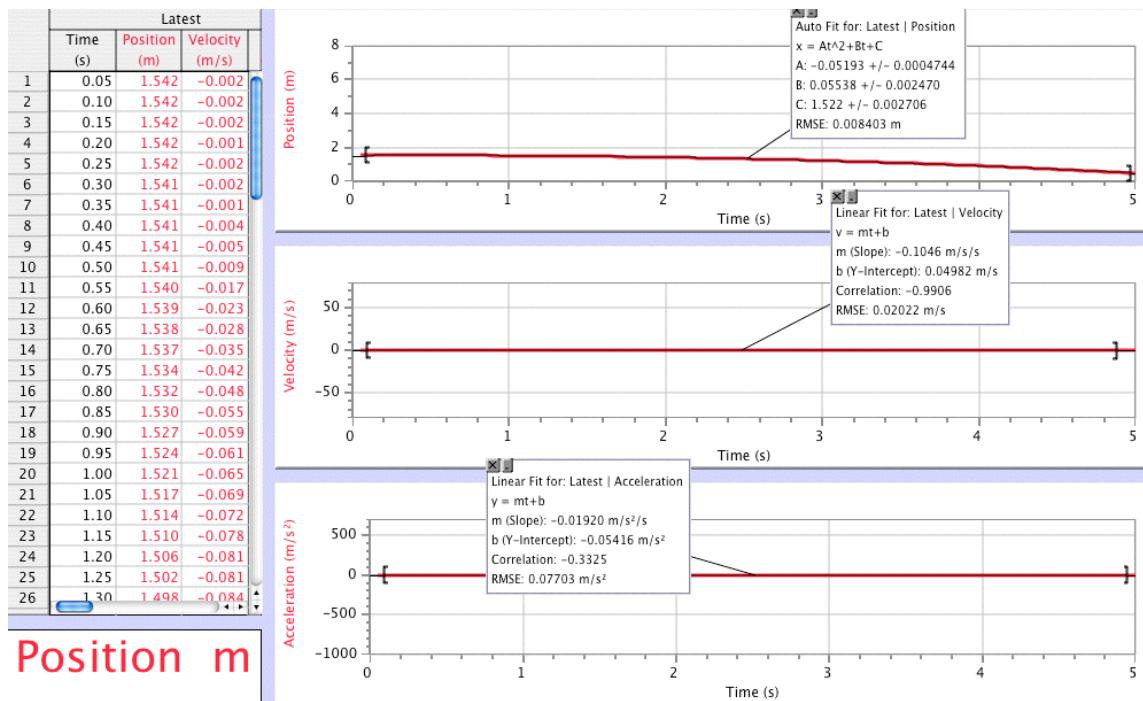
empty car fast



weighted car
fast

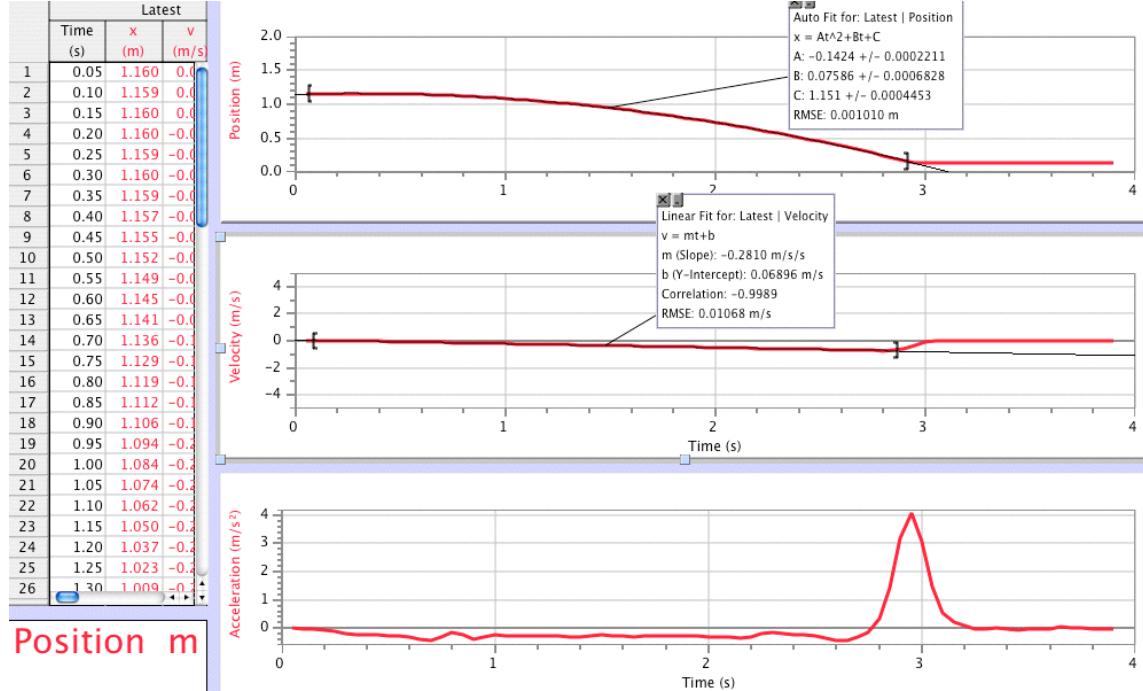


weighter car slow



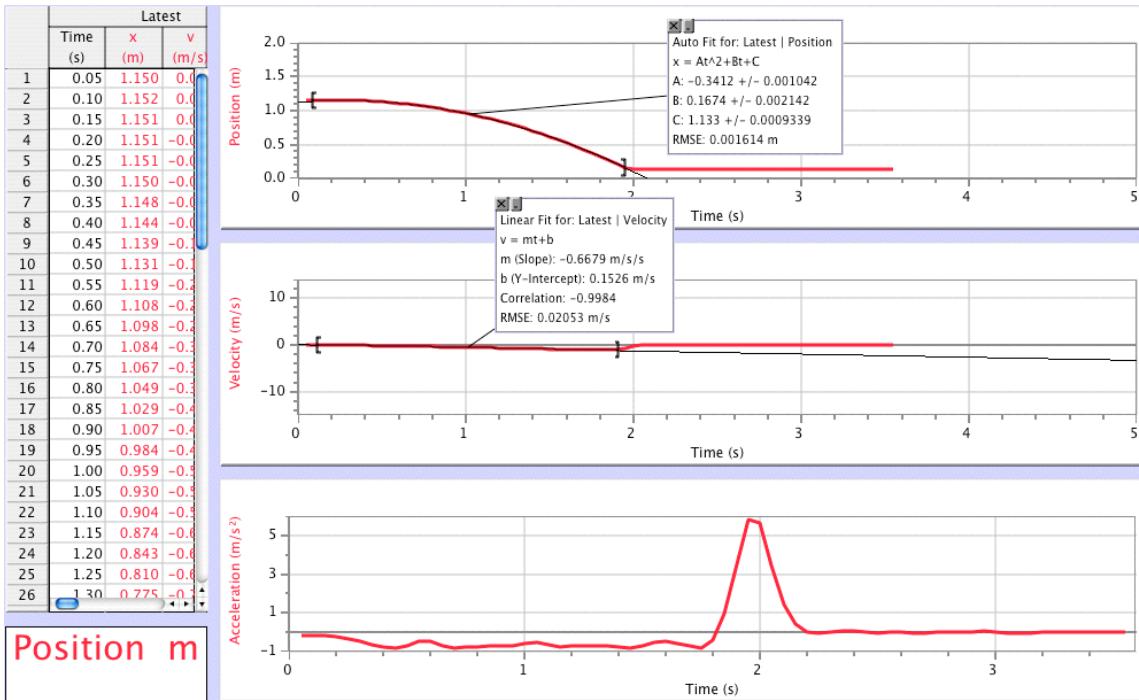
Position m

low Incline



Position m

High incline



Observations: I noticed that when there was no weight on the fan cart it started to speed up faster than it did when there was a weight, but when there was a weight, the fan cart ended up moving faster by the end of the trial. Also with the incline, the high incline went faster than the low incline did.

Analysis: Overall in this lab, things went very well. The things that should have been happening such as the speeding up with more weight did happen, and there were no real problems that we had to encounter in the lab.

Conclusion: Some of the things that could be improved on this lab are things such as having a flatter surface to work on. This is very important, because if the surface is not completely flat then the fan cart will either be slowed down or speed up due to the slant in the surface.