Physics ***Name_____***

Date _____ ***Class Period_____***

Pair Analysis

Your Task

For the two-way trip of the fan cart, students tend to disagree on the number, origin, relative sizes, and changes in the force(s). That is, students offer different *scientific models* for the two-way trip. These models are expressed in terms of speed and force graphs, motion dots, and force diagrams.

For this assignment, you will *further develop* your model of the two-way trip of the fan cart.

(1) give the model a name
(2) describe the model in your own words (two paragraphs in *Word* doc). Express yourself in terms of "speed" and "force." Be as detailed as possible
(3) complete the *speed graphs and force diagrams* as done for the *Warm Up*
(4) evaluate the strengths and weaknesses of your model (1-2 paragraphs in *Word* doc)
(5) discuss other options you considered

Please do not communicate with, or receive assistance from, students outside your group.

When you are finished:

(6) insert your graphs and diagrams in your Word doc*
(7) title your *Word* doc in the format: pair_N_XX_XX.doc, where "N" is your section number and "XX" are your group numbers .
(8) Email your Word.doc as an attachment to lattery@uwosh.edu. On the Subject Line, use the format WPS1 XX XX XX (section 1 students) or WPS2 XX XX XX (section 2 students). Note: Use open spaces between group numbers.

Important! Please put all work in one single Word doc!

To receive credit for this activity, all instructions must be followed.

*Some students prefer electronic drawing and paint tools. That's fine! Otherwise, print out the enclosed sheets, complete with colored pencils, and scan.