Kim’s Komet

Day 4

Objective: Warm Up
- Draw “Line of Best Fit” for Challenge #2
- Using “Smart Tool” to compete in Kim’s Pentathlon Events
- Calculating Bonus Points

Materials needed: Kim’s Komet Video, chart that students have collected data, graph with points plotted, calculators, coordinate grid warm-up, reduced copy of teachers Smart Tool graphed without “Line of Best Fit”, Scorecard for Kim’s Pentathlon, chart with events and speeds for Pentathlon, transparencies of student materials.

Warm Up: Glue in coordinate grid paper with ordered pairs to draw first “Line of Best Fit” Have students plot the points so you can talk about “Line of Best Fit”

1. Use the warm up as instruction time for “Line of Best Fit”. Talk to the students about what the “Line of Best Fit” means. I like to use the example about the line being a magnet and trying to pull the data into the magnet. The line should be straight and go through a majority of the data. Do several bad examples of drawing the line before you let students try this. This is one of the most important parts if students are going to be successful. If their “Line of Best Fit” is not accurate they will not have much success. For the Pentathlon graph the “Line of Best Fit” will curve a little.
2. Hand out a copy of the teachers “Smart Tool” to all students. Shrink this down to get four on one page. Students use this to practice making “Line of Best Fit” before they draw their own on their graph.
3. Check all students on their “Line of Best Fit”. Have other students look at each other’s and give suggestions.
4. Students should now draw their own “Line of Best Fit” on their data for Kim’s Pentathlon.
5. Teach students how to calculate Bonus Points for the competition.
6. Hand out the scorecard for Kim’s Pentathlon
7. Show speed for first event on Kim’s Pentathlon.
8. Go over the first event with the students and make sure they are reading their “Smart Tool” correctly.