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Tour de France with Stella and TI Calculator

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Tour de Technology!
Tour Overview

➢ Our tour of technology is actually paralleled with the Tour de France

➢ As we embarked on our journey, we learned and completed stages of learning, just as the riders completed stages in the Tour de France.
Stage 1

• We began our journey using laptop computers researching the Tour de France on the internet.

• We were able to gather our own information on individual. (which we should keep!!)

• We recorded data from each stage including distance, time, and terrain conditions.
Stage 2

• Calculating our speed was easy using a “new” program called Microsoft Excel.
• To do this, we had to learn how to set up cells to make a table.
• In order to calculate the speed, from time and distance, we learned how to create a function.
• After we created an accurately working table, we entered our collected data.
To see how the terrain effected the speed of the riders, we entered our data into the **TI 83 graphing calculators**. This gave an overall picture of the riders speeds.

The process of our stage entailed:

- entering data lists
- adjusting window setting and scale
- selecting which list to graph
- then analyzing the resulting graph.
The Smartview
Stage 4

- Again, we turn to the internet to find a real good map of France.
- Once we found the map we sketched different routes using the interactive program on the Promethean Board, using the special pens.
Stage 5

- We found the perfect picture to use for the outline of our map.
- All of us participated in hand drawing the route of the riders.
Stage 6

- We were introduced to a program called *Stella*.
- Sliders were our tools to model the effects of terrain on the riders speed.
- The components of our model factored in terrain, speed, and distance to calculate the riders finish time.
Stage 7

• It was fun using a digital camera to take pictures along the way.

• It was quick, easy, and convenient to use.
Stage 8

- Our final stage was creating our *power point* presentation.
- Step by step we experimented with various effects and designs.
- We reviewed all of what we experienced and learned.
- Together as a team we completed the task!
- After our exhausting tour, our minds our sharper, our knowledge is stronger, and our challenge is complete!
Special thanks to:

- CMST program for lending us the laptops.
- Ms. Reynolds, Mr. Iacchetta, and Mrs. Hastings for helping us with the challenge.

P.S.

We really should keep the computers and graphing calculators!