Phillies Project Due Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Unit 3

**Directions:**

Your favorite Philadelphia Phillies player’s contract is up at the end of the year. As a group, you must figure out if you should re-sign him based on trends in his statistics. Each group will first select a Phillies player from <http://espn.go.com/mlb/team/roster/_/name/phi/philadelphia-phillies>. Each member of your group will serve as a different coach on the coaching staff (for example: one person will be the hitting coach). Each person will make two scatterplots displaying the trends of a certain statistic over the past five years. You’ll then find the linear regression line to each of the two graphs. Using the line you should talk about whether the trend is increasing or decreasing. Then estimate your player’s stats in the next two upcoming seasons (2011 and 2012). You must use the numbers for slope in the context of the problem to make an argument on your decision to re-sign him or release him. Even though this player may be your favorite Phillie, your decision must be made from the data found from your line (not your opinion). You will then present your findings on an eleven-slide presentation using Google Docs. Please make sure you decide on a layout before starting the project and keep in mind the things you’ve learned about making effective presentations. Each group will then present their work and each group member must have a speaking part to the presentation!

**Slide Layout:**

Slide One: Title Slide – Include which player you are researching, as well as the names of each group member. Graphics may also make your slideshow more presentable.

Two Through Nine (or Eleven for groups of five): These slides will include:

1. Player’s name.
2. Which coach you are and what statistic you are researching.
3. A table for the player’s stats over the past five years.
4. One scatterplot with the linear regression line.
5. The equation for each linear regression line.
6. Titles and labels for each graph.
7. A sentence describing if the trend is increasing or decreasing.
8. What the slope means in the context of the problem.
9. Prediction for 2011 and 2012.

Slide Ten (or Twelve for groups of five): This should be a slide explaining your conclusion based on the information from the previous slides. You should be explaining the slope of the linear regression lines in the context of the problem to prove your points. As a group, you should come to a consensus deciding whether to re-sign your player or not.

Slide Eleven: Works Cited Slide - This slide should include the source of where you got your statistics. Following MLA format your citation should be as follows:

“Title of Article”. *ESPN.com*. ESPN, 2011. Web. Date of Access. <URL>.

**Grading:**

Each group will be graded on the following criteria:

Appearance (5 points)

Accuracy (5 points)

Completion (5 points)

Group Work (5 points)

Presentation (5 points)

**How to find Career Statistics:**

* Go to <http://espn.go.com/mlb/team/roster/_/name/phi/philadelphia-phillies>
* Click on the player your group is researching
* Click on Stats

**Coaches/Statistics (groups):**

**If you choose a player that is not a pitcher:**

Hitting Coach: Hits (H) and Strikeouts (SO)

Strength Coach: Homeruns (HR) and Runs Batted In (RBI)

Base Running Coach: Runs (R) and Stolen Bases (SB)

Fielding Coach: Errors (E) and Double Plays (DP)

Hitting Accuracy Coach: Doubles (2B) and Triples (3B)

**If you choose a player that is a pitcher:**

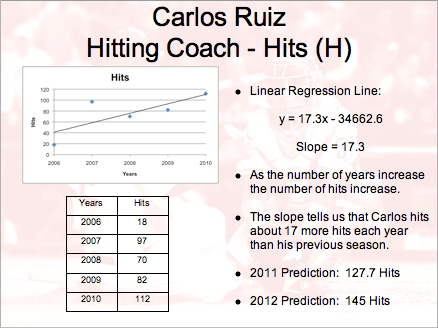
Endurance Coach: Innings Pitched (IP) and Games Played (G)

Accuracy Coach: Walks (BB) and Walk and Hits Per Innings Pitched (WHIP)

Speed: Strikeouts (SO) and Homeruns Given Up (HR)

Mechanics: Wins (W) and Loses (L)

Overall: Earned Run Average (ERA) and Earned Runs (ER)



**Here is an example for a slide:**