

Home Run Line Graphs/Score Problem Solving

Winning Teacher: Joy Patterson

School: Kingston School – Cherry Hill, NJ

3rd / 4th Grades

Mathematics/Baseball

20 minutes a day from April to June

I. Objectives

- The students will be able to use a variety of problem solving strategies to complete word problems.
- The students will be able to use the newspaper and Phillies website to track player home runs and the Phillies score each day.
- The students will be able to graph home runs on a line graph.

II. Procedure

1. Each day a student will be assigned to use the Phillies website and or newspaper to look up the score from the previous day. They will also look up if any player hit a home run.
2. The assigned student will record score on the Phillies scoreboard that is displayed in the front of the room.
3. The student will also plot any home runs for the previous day on the line graph. (Each player has a different color.)
4. Class will review score and line graph each day.
5. Teacher will create word problems each day based on the information from the line graph and the Phillies scoreboard. Examples include 'Write a fraction to show how many home games the Phillies have won, How many more games have the Phillies won than lost? If Ryan Howard has 15 home runs by All Star Break, predict how many he will have by the end of the season, etc.)
6. Each day students will go over problems and strategies they used to solve them.

III. Observation and Assessment of Students

Assessment for this lesson will include:

- students' use of the newspaper and website to find the scores and home runs. (Did students navigate website and newspaper properly? Were they able to find the score and the home runs if necessary?)
- students' responses to math problems. (Did they get the correct answer? Did they use line graph and scoreboard to help find their answer? Were they able to explain their answer and process clearly?)

IV. Resources

Computer

Newspaper

Phillies Scoreboard Poster

Phillies Home run Line Graph
Math Journals