"Scoreboard Math"

Children will play with variations of numbers as organized on a baseball scoreboard.

Reference to Tennessee Mathematics Standards:

▯   Collect, record, arrange, present, and interpret data using tables and various representations (GLE 0406.5.1).

Reference to Common Core State Standards:

MD.K.3 Classify objects and count the number of objects in each category. Classify objects into given categories; count the numbers of objects in each category and sort the categories by count. (Limit category counts to be less than or equal to 10.)

Objectives:

The child will use a variety of strategies to predict, estimate and compute using the scores earned by teams during a baseball game.

Materials:

Memphis Redbirds Score Board Illustration or student-made nine-inning scoreboards, paper and pencil, corresponding video: http://www.watchknowlearn.org/Video.aspx?VideoID=7447

Before the Game:

The teacher should make a 2 X 9 matrix (so it is uniform) to represent the scoreboard, placing the opponent's team name and the Redbirds name in front of the rows of nine. Include columns for runs, hits and errors with a 2 X 12 matrix. Students then predict the score for each team per inning and then compute their prediction for the final score. Make a blank scoreboard to take to the game. Take a 2 X 9 matrix to the game. Students can create decorate it before the game. See samples in Appendix P (Memphis Redbirds Scoreboard Illustration)

At the Game:

Children mentally compute the total score per inning. They may take a blank scoreboard to record the actual score per team, per inning. OR, take and use their predictions:
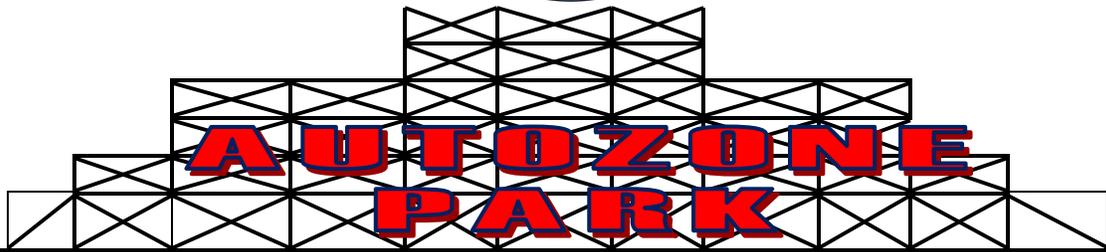
1)   How many runs would the Redbirds' have to score in an inning to make the predicted total for that inning?
2)   How many runs will the Redbirds (or their opponents) need to score the remainder of the game to equal the total predicted score for that team? (e.g. If you predicted the two teams would score 5 runs in the 3rd inning and the other team scored 1 in the 3rd, how many would the Redbirds have to score that inning to make your prediction accurate?)
3)   Pair students with a partner to compare predictions

Beyond the Game:

Use blank scoreboards to make up all the ways on this scoreboard that a team can score 15 runs in 9 innings, or all the ways a team can score X number of runs in X number of innings. Compare the predictions made to the actual scores on the scoreboards. Each student can analyze his or her predictions by inning and by team. How close were your predictions? Which inning came closest to the predicted score? Students can use a blank scorecard at home to record.

Memphis Redbirds Score Board Illustration

	1st			2nd			3rd			4th			5th			6th			7th			8th			9th		
	H	R	E	H	R	E	H	R	E	H	R	E	H	R	E	H	R	E	H	R	E	H	R	E	H	R	E
Visitors:																												
Memphis																												