

BCPS Field Trip Request ID # 8269

Trip Request By	James Carnes - BMS
Trip Name	Statistics, Data Collection, and Display
Trip Date	06-08-2018
Approx. Pick-up Time	8:30AM
Return Date	06-08-2018
Approx. Return Time	2:30PM
Class/Group	6th Grade
Student Count	145
Chaperone Count	15
Number of Vans/Buses	4
Common Carrier	Miller
Cost to Students	15
How will you pay for students who cannot afford the fee?	6th Grade Account

Place of Departure

Name:	Bernheim Middle School
Address:	700 Audubon Dr.
City:	Shepherdsville
State:	KY

Destination

Name:	Fern Bowl
Address:	5518 Bardstown Rd
City:	Fern Creek
State:	KY

Lesson Plans

1. What educational objective does this field trip meet for your students?

6.SP.5c Giving quantitative measures of center (median and/or mean) and variability (interquartile range and/or mean absolute deviation), as well as describing any overall pattern and any striking deviations from the overall pattern with reference to the context in which the data were gathered.

6.SP.3 Recognize that a measure of center for a numerical data set summarizes all of its values with a single number, while a measure of variation describes how its values vary with a single number.

6.SP.4 Display numerical data in plots on a number line, including dot plots, histograms, and box plots.

Students will be collecting data and scoring themselves as they bowl in groups of four or five. They will keep track of their individual scores and will find the measures of center of their group's data. They will then take their measures of center and display the data in both a number line and a box and whisker plot.

2. How is this trip connected with or linked to the unit you are currently teaching in the classroom? What have you been teaching that leads to the value of this trip?

Students have been learning about statistics, data collection, and display. One real life application we have focused on in sports and the use of statistical analysis when it comes to patterns, data shape distribution, and the importance of context in a data set. Students have learned concepts including measures of center, variability, and box and whisker plots. They will be required to use this knowledge and apply it to this real world setting.

3. What instructional follow-up activities will the students do upon returning from the field trip?

Upon returning to school students will follow-up by comparing their data and graphs to other groups and completing written reflections based on their observations and inferences.

4. How will the field trip enhance learning more than the regular classroom instruction on this topic or lesson?

Students not only learn more from firsthand experience but value the learning process more as well. Giving students a real life experience to connect to mathematical skills and concepts enhances the learning process. Students can compute statistics based on data given to them, but this gives them an opportunity to collect and formulate the data themselves, making the process more meaningful.

5. When did your students last attend this site?

Our students have never attended this site as a group.