

Surveys and Data Analysis

WebQuest Description: This webquest allows students the opportunity to create a survey and use that survey to collect, graph, and analyze data.

Grade Level: 3-5

Curriculum: Math

Keywords:

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WebQuest URL: <http://zunal.com/webquest.php?w=104766>

Introduction

Surveys are used in everyday life to gather information. Your family might take an informal survey to decide which restaurant to go to for dinner. The restaurant you go to might use a survey to determine which foods to serve based on the likes or dislikes of their customers. Many businesses use the information gathered from surveys to help make important decisions about what products to create and which direction to take their business. Whether they are done formally or informally, surveys are very useful.

Tasks

During this webquest you will complete a survey and then use that survey to tally, graph, and analyze a set of data using range, median, and mode.

Process

Today you will complete a webquest that involves creating and completing a survey and then collecting, graphing, and analyzing the data you've created. Follow the steps listed below to complete your webquest.

1. Get an introduction to surveys and the four steps involved in creating a successful survey by reading Survey Says.
2. Read Step One Create the Questions to learn about creating survey questions.
3. Learn how to make a good questionnaire by reading Survey Questions.
4. Read Step Two Asking the Questions to learn about asking your survey question.
5. Stop now and create your survey question(s). Check your finished question with the teacher. Save this sheet to use for your tally.
6. Read Step Three Tally the Results to learn about tallying the survey results.
7. Read Tally Marks to learn more about writing tally marks correctly.
8. Stop now and collect your data by surveying your classmates. Write your information on the same sheet with your survey question.
9. Read Step Four Presenting the Results to learn about the different ways that results can be presented.
10. Learn how to show your results even more by reading Showing the Results of a Survey.
11. Use your data to create a graph using Google Docs spreadsheets. Be sure to share your graph with the teacher.
12. Read How to Find the Median Value to learn how to figure out the median and then calculate the median value of your survey data. Write the median value of your data on a separate sheet of notebook paper to turn in at the end of the webquest.
13. Read How to Find the Mode to learn about the mode of a set of data and then calculate the mode for your survey data. Write the mode for your data on the notebook paper with your median value.
14. Read The Range of a Set of Data to learn how to determine the range for a set of data and then calculate the range for your survey data. Add the range for your survey data to the notebook paper containing your median and mode values. Congratulations ~ your webquest is now complete! Be sure to share your graph, turn in your survey question/tally sheet, and notebook paper containing the range, median, and mode for your survey data to the teacher.

Evaluation

Students who complete this webquest will be evaluated using the documents created during the webquest. Students must turn in three separate documents in order to get full credit. The documents needed are the sheet containing their survey question including the tally information, the graph they created, and the paper containing the range, median, and mode for their data.

Category and Score					Score

Category and Score					Score
				Total Score	

Conclusion

The Surveys and Data Analysis webquest you completed today compiled numerous math concepts into one assignment. You learned how to create a good survey question, collect data using tally marks, and tally the results. After collecting all your data, you used that data to create a graph. Finally, you analyzed your data by calculating the range, median, and mode. If you were a business, how could you use the information you have collected?

Teacher Page

This webquest would be perfect as a culminating activity for a unit on data analysis. Students would have already learned all the necessary math concepts but would be able to use the links to refresh their knowledge of various concepts as needed.

Standards

Credits

Other