

Using Graphs to Communicate Information Using Various Live Document Applications

Grade Level: 7-12

Overview	Students will learn to use Live Documents and the various uses while collaborating with classmates in creating a graph and converting the graph into numerical data on a spreadsheet and communicating findings on a document.
Objective	<ul style="list-style-type: none"> • Students will work in groups of 3-4 to record data in their specified project. • Students will use formulas in a Live Documents Spreadsheet. • Students will use the data in the spreadsheet and convert information into several kinds of charts. • Students will utilize information obtained through hands-on research and analysis to predict distributions and write a research report.
Standards	<p style="text-align: center;">Math Core Standards 1, 3, 4 Science Core Standards 1, 2 Social Studies Core Standards 1 Language Arts/English Core Standards 1, 2, 3, 4 Engineering/Technology Education (Middle School Standards) MS.3, MS.4, MS.5, MS.19 Engineering/Technology Education (High School Standards) HS.3, HS.4, HS.5</p>
Materials	<ul style="list-style-type: none"> • Live Documents Account • Internet
Procedure	<ol style="list-style-type: none"> 1. Work in small groups to gather data related to the specific topic. 2. Have students make initial assumptions or guesses about their topic and have them each record on Live Documents, so each student can see other group members assumptions. 3. Students will then create a Live Documents Spreadsheet with the data collected. Have each student within the group take

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	<p>one specific type of data collected and enter into spreadsheet.</p> <ol style="list-style-type: none"> 4. Have each students use various techniques such as using equations and functions to sort the information collected. Also have students change physical appearance editing techniques to make material visually appealing. 5. Have each student in the group take the collected data and create a graph of their choice. 6. Have students collectively work on the written report by using the Live Documents application. Each student will be able to edit the others work as well as elaborate on their findings. Students must be sure to answer their initial research questions.
<p>Evaluation</p>	<ul style="list-style-type: none"> • The accuracy of data collection • The successful completion of a spreadsheet that includes formulas and visual appeal • Their ability to work and problem solve collaboratively • Their demonstrated understanding of the uses of different charts • The thoroughness and effectiveness of their final report and the data collected