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Graphical analysis worksheet

Copyright 1997-2020 Catharine H. Colwell All Rights Reserved. My goal for this lesson is to arm my students with additional resources when presenting information to their peers. Through these presentations, I want students to be able to present their analysis based on the chart I have assigned them. By performing graphical analysis, my students are analyzing and interpreting data (SP4) and through rendering data, making statements about the written relationship between variables, and indicating the mathematical model of the chart, students demonstrate the use of mathematics and computational thinking (SP5). Finally, through their whiteboard presentations, students communicate important scientific information (SP8). To start a class, students choose their work for the previous day's chart worksheet and Chromebooks. They have finished charts to practice the worksheet for homework the night before in their laptops. While doing their homework, they use Plotly and their summary charts page to help them. Then I go through how to make a whiteboard online using Google Drawings. I have students create a digital copy of their panes partly because of the requirement to use Chromebooks in the classroom in our district. I also wanted to use these digital whiteboards because it gives students another way to present their information in addition to presenting in front of the class, helping to show all the explanations of their work in writing. Whiteboarding is very important in my class because it helps students talk about how they got their answers and do more explaining and writing to help them learn better. I also found that many students' misconceptions come out in whiteboard presentations when they talk about problems. By presenting it helps me point out misconceptions and address concepts that I may not have encountered otherwise in the classroom. I tell them to google drawing whiteboards for problems on this worksheet that must contain a correctly marked chart and correctly replaced with the mathematical model that goes with it. I'm going through the process of inserting a chart and a mathematical model for the first problem that I present on the front screen of the projector. To insert a chart into a drawing, you must first create your Plots chart. For instructions on how to create a chart, see the instructions here. Then I ask them to take a screenshot of their chart and paste it into the drawing. To insert a mathematical model into a drawing, you must insert the text box below and enter an equation. I tell students not to forget to replace x and y variables with variable names and include the appropriate units on numbers. I assign problems to students based on the number of their tables (#1-7). Once students know their problem number, let them take the time as a group to complete their Google Drawing dashboard and presented in front of the class. I give them about 15 minutes to prepare their whiteboard and see what each member will present. I do this by having time to prepare what they need to present, so they are experts on their problem when they are presenting. Data Analysis Digital Escape Room using Google Forms Distance Learning Give your students comprehensive data analysis experience including variability, average, median, mode, range, IQR, box and whisker plots, histograms, relative frequency tables, and more! This is NO PREP Escaperoom 24th, 5th, 6th, 7th, 8th, 9th, 10th, 11th, 12th, HomeschoolPage 3 Thank you for your participation! Home Physics AP Physics C PLTW IED IED

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