

Displaying Numerical Data

A Lesson Plan Integrating Learningpod, U.S. Government data, and Khan Academy videos

Day	Lesson	Homework Assignment
1	<p>Do Now: Display U.S. Census infographic, “Measuring America: Computer and Internet Trends” Ask students to write what they see in the infographic. Share.</p> <p>Core Lesson: Overview of Data Display</p> <ul style="list-style-type: none"> ○ Understand the purpose of displaying data ○ Explain that there are several ways of showing data, each having strengths and weaknesses ○ Provide an overview using visuals of a variety of charts and graphs that students will be learning to create and apply over the next several days. ○ Explain that class will be starting with the bar chart. Emphasize that there are different looks to bar charts (Refer back to “Measuring America” and the section “Why No Internet at Home.”) 	<p>View Khan Academy videos on bar charts: “Reading Bar Charts 1” and “Reading Bar Charts 2” with companion exercises.</p>
2	<p>Do Now: Complete Learningpod’s “Bar and Double-Bar Charts” pod and check results.</p> <p>Core Lesson:</p> <ul style="list-style-type: none"> ○ Explain that while students are familiar with bar charts, there are other charts they may not have used. Today’s lesson will focus on line graphs and histograms. ○ Students work individually on two pods: Learningpod’s “Line and Double Line Graphs.” Circulate and check for understanding. 	<p>Learningpod’s “Histograms”</p> <p>Those needing extra practice with bar charts should watch Khan Academy video “Reading Bar Charts 3” and complete companion exercise.</p>

	<ul style="list-style-type: none"> ○ Show real-world application of histograms 	
3	<p>Do Now: You have completed pods on histograms and bar charts. How are they similar, and how do they differ?</p> <p>Core Lesson:</p> <ul style="list-style-type: none"> ○ Display a scatterplot; assess students' understanding ○ Direct students to do Learningpod's "Scatter Plots" at their seats; review answers. 	<p>Watch Khan Academy videos on box-and-whisker plots: "Reading Box-and-Whisker Plots" and "Creating Box-and-Whisker Plots"</p>
4	<p>Do Now: Learningpod's "Box-and-Whisker Plots." Review answers.</p> <p>Core Lesson:</p> <ul style="list-style-type: none"> ○ When students confident in box-and-whisker, introduce frequency tables. ○ Compare and contrast histograms and frequency tables. ○ Break students into groups to do and present this large pod (30 questions) 	<p>Create your own frequency table (e.g., playing sport)</p> <p>Optional: Khan Academy video: "Range and Mid Range"</p>
5	<p>Do Now: Look at projected stem-and-leaf plot in Learningpod's "Stem-and-Leaf Plots." Ask students to attempt first question.</p> <p>Core Lesson:</p> <ul style="list-style-type: none"> ○ Identify how stem-and-leaf plot differs from data displays studied to date. ○ Continue with Learningpod's 27-question pod, "Stem-and-Leaf Plots" on own or in small groups; circulate 	<p>Finish pod</p> <p>Watch Khan Academy videos on pictographs: "Reading Pictographs," "Reading Pictographs 1," and "Reading Pictographs 2"</p>
6	<p>Review Day: Displaying Data. Project U.S. Census Bureau's "Pathway After Completing a Bachelor's Degree." Challenge Students to Create write a few sentences on</p>	<p>Study for unit test</p>

	<p>what people can learn based on the pictographs.</p> <p>Core Lesson:</p> <ul style="list-style-type: none">○ Use Learningpod's "Displaying Data"○ Address student concerns○ Have exercises handy for review and interpretation.	
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