**Comparing Dot Plots Notes Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

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| **Dot plot (Line plot):** a method of visually displaying a distribution of data values where each data value is shown as a dot or mark above a number line | | |
| Vocabulary | Definition | From Above |
| Variability | an indication of how widely spread or closely clustered the data values are. Range, minimum and maximum values, and clusters in the distribution give some indication of variability |  |
| Peak | being at the point of maximum frequency, intensity, use, etc. |  |
| Cluster | a group of things or persons close together |  |
| Skewed | asymmetry in a frequency distribution |  |

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| Example: The dot plots represent the number of hours students spent on their math and science homework in one week. | |
| 1. What is the difference in the median value for each set of data? |  |
| 2. How is the Science graph skewed? |  |
| 3. What comparisons can you draw from looking at the plots about the amount of time spent on homework? |  |
| 4. Does either graph show any clustering? What does that mean? |  |
| 5. Does either graph show a peak? What does that mean? |  |

**Pause the video and try these on your own!**

**Then press play and check your answers with a color pen**

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| The dot plots show the amount of time students spent exercising and watching TV in one week. | |
| 1. What is the difference in the median value for each set of data? |  |
| 2. Is either graph skewed? If so, how? |  |
| 3. What comparisons can you draw from looking at the plots about the amount how students spend their time? |  |
| 4. Does either graph show any clustering? What does that mean? |  |
| 5. Does either graph show a peak? What does that mean? |  |