

Any standard **highlighted in yellow** has been determined by our WCSD teachers, district and state experts as essential for students to master.

<p><b>Strand 11.S.ID: I can summarize, represent, and interpret data on a single count or measurement variable (Standard S.ID.4).</b></p>			
<p><b>Standard 11.S.ID.4: I can use the mean and standard deviation of a data set to fit it to a normal distribution and to estimate population percentages. I can recognize that there are data sets for which such a procedure is not appropriate.</b></p>			
<p><b>Learning Targets</b></p> <ul style="list-style-type: none"> <li>I can use calculators, spreadsheets, and tables to estimate areas under the normal curve.</li> <li>I understand that the shape of a normal distribution is symmetric, single-peaked, and bell-shaped.</li> <li>I can distinguish between examples and non-examples of approximately normally distributed data.</li> <li>I know that any normal distribution can be described by its mean and standard deviation.</li> <li>I understand how the normal distribution uses area to make estimates of frequencies (which can be expressed as probabilities).</li> <li>I know that 1,2, and 3 standard deviations refer to 68%, 95%, or 99.7% of the population, respectively.</li> <li>I can use technology or tables to estimate areas under the curve of a normal distribution.</li> </ul>	<p><b>Academic Vocabulary &amp; Notation</b></p> <ul style="list-style-type: none"> <li>normal distribution, mean, standard deviation, symmetry,</li> </ul>	<p><b>Question Stems</b></p> <ul style="list-style-type: none"> <li>Gather classroom data (i.e. for the total number of letters in first and last names). Make a dot plot of the data and find the mean and standard deviation.</li> <li>Explain the data distribution.</li> <li>I solved the problem by.....</li> </ul>	<p><b>Possible Assessments</b></p> <ul style="list-style-type: none"> <li><u>District CFAs</u></li> </ul>