

**Mathematics**

**Unit 3: Data Analysis, Statistics, and Probability**

<p><b>Essential Understandings</b></p>	<ul style="list-style-type: none"> <li>▪ Graphs convey data in a concise way.</li> <li>▪ Information from a graph can be used to answer questions.</li> </ul>
<p><b>Essential Questions</b></p>	<ul style="list-style-type: none"> <li>▪ What is data?</li> <li>▪ Why does one collect data?</li> <li>▪ How can data be collected, sorted and classified?</li> <li>▪ What is a tally chart/table?</li> <li>▪ What is a picture graph?</li> <li>▪ What is a bar graph?</li> </ul>
<p><b>Essential Knowledge</b></p>	<ul style="list-style-type: none"> <li>▪ Data is information.</li> <li>▪ Data is collected to solve problems and answer questions.</li> <li>▪ Data can be collected and organized.</li> <li>▪ Data can be represented using objects, pictures, and graphs.</li> <li>▪ Graphs are used to represent and interpret data.</li> </ul>
<p><b>Vocabulary</b></p>	<ul style="list-style-type: none"> <li>▪ <u>Terms:</u> <ul style="list-style-type: none"> <li>○ collect, sort, classify, data, picture graph, tally chart/table, bar graph, compare</li> </ul> </li> </ul>
<p><b>Essential Skills</b></p>	<ul style="list-style-type: none"> <li>▪ Collect, sort, and classify data. (I)</li> <li>▪ Use a template (with a single unit scale) to create a picture graph. (I, R)</li> <li>▪ Interpret information from tally charts/tables, picture graphs and bar graphs. (I)</li> </ul>
<p><b>Related Maine Learning Results</b></p>	<p>B. Data            Measurement and Approximation            B2.Students read, construct, and interpret picture graphs.</p>