

Chapter 9 Investigation	Complete (20 points)	Substantial (15 points)	Developing (10 points)	Minimal (5 points)	Total points
<b>Introduction and Data Collection</b>	<ul style="list-style-type: none"> <li>✓ Describes the context of the research (sport, player, team, year, etc.) and includes reasons for variable choice</li> <li>✓ Has clearly stated questions of interest (about overall ability and difference in ability)</li> <li>✓ Specifically describes how the data was collected (including source)</li> <li>✓ Includes raw data in an appropriate form</li> </ul>	<ul style="list-style-type: none"> <li>✓ Has specific questions of interest, but doesn't include raw data, adequately introduce the context, or describe how the data was collected.</li> </ul>	<ul style="list-style-type: none"> <li>✓ Has questions of interest and uses appropriate type of data, but has several other problems.</li> </ul>	<ul style="list-style-type: none"> <li>✓ Has a question of interest</li> </ul>	
<b>Graphs and Summary Statistics</b>	<ul style="list-style-type: none"> <li>✓ Includes correct graph of overall performance</li> <li>✓ Includes correct graphs to compare performances in two contexts</li> <li>✓ Graphs are discussed/compared correctly</li> <li>✓ Appropriate summary statistics are calculated and discussed</li> </ul>	<ul style="list-style-type: none"> <li>✓ Appropriate graphs and summary statistics are included, but graphs are not well done, graphs are not compared, or summary statistics are not discussed</li> </ul>	<ul style="list-style-type: none"> <li>✓ Includes appropriate graphs and summary statistics, but there are several problems or one graph is omitted completely</li> </ul>	<ul style="list-style-type: none"> <li>✓ Some graphs are included or some summary statistics are calculated</li> </ul>	
<b>Calculation of Intervals</b>	<ul style="list-style-type: none"> <li>✓ Chooses appropriate methods for computing both confidence intervals</li> <li>✓ Correctly calculates both intervals</li> <li>✓ Shows appropriate work for both intervals</li> </ul>	<ul style="list-style-type: none"> <li>✓ Calculates both intervals using appropriate methods, but doesn't show work or has an error in the calculation</li> </ul>	<ul style="list-style-type: none"> <li>✓ Attempts to calculate two intervals using appropriate methods, but has several major problems or correctly calculates one interval and shows work</li> </ul>	<ul style="list-style-type: none"> <li>✓ Attempts to calculate confidence interval</li> </ul>	
<b>Interpretations and Conclusions</b>	<ul style="list-style-type: none"> <li>✓ Interprets both intervals correctly</li> <li>✓ Correctly uses the confidence interval for a difference in ability to draw an appropriate conclusion</li> <li>✓ Shows evidence of critical reflection (discusses possible errors, shortcomings, limitations, alternate explanations, etc.)</li> </ul>	<ul style="list-style-type: none"> <li>✓ Interprets the interval(s) correctly but doesn't make a correct conclusion about the difference in ability or shows little evidence of critical reflection</li> </ul>	<ul style="list-style-type: none"> <li>✓ Interprets the interval(s) correctly but doesn't attempt a conclusion about a difference in ability or has no evidence of critical reflection</li> </ul>	<ul style="list-style-type: none"> <li>✓ Attempts to interpret the confidence interval(s)</li> </ul>	
<b>Overall Presentation/Communication</b>	<ul style="list-style-type: none"> <li>✓ Clear holistic picture of the investigation as a two-step process (e.g., includes preliminary and final conclusions)</li> <li>✓ Investigation is well organized, neat and easy to read</li> <li>✓ Ideas are well communicated, including appropriate transitions between sections.</li> <li>✓ Clearly contrasts the concepts of performance and ability in context</li> </ul>	<ul style="list-style-type: none"> <li>✓ Investigation is organized, easy to read, and has appropriate transitions, but lacks clear communication, a holistic picture of the investigation, or does not clearly contrast the concepts of performance and ability</li> </ul>	<ul style="list-style-type: none"> <li>✓ Investigation is somewhat organized, but has several major problems</li> </ul>	<ul style="list-style-type: none"> <li>✓ Communication and organization are poor</li> </ul>	