

Name: _____ Date: _____ Period: _____ Grade: _____

Chapter 4 Investigation	Complete (20 points)	Substantial (15 points)	Developing (10 points)	Minimal (5 points)	Total points
Introduction and Data Collection	<ul style="list-style-type: none"> ✓ Describes the context of the research (sport, player, team, year, etc.) and includes reasons for variable choice. ✓ Has a clearly stated question of interest. ✓ Data is appropriate to answer question of interest. ✓ Includes raw data and source of data. 	<ul style="list-style-type: none"> ✓ Has a specific question of interest and uses appropriate data, but doesn't adequately introduce the context, describe how the data was collected, or include the raw data. 	<ul style="list-style-type: none"> ✓ Has a question of interest and uses appropriate data, but has several other problems. 	<ul style="list-style-type: none"> ✓ Has a question of interest. 	
Dotplots	<ul style="list-style-type: none"> ✓ Dotplots are done correctly and easy to compare ✓ Summary statistics are correctly calculated 	<ul style="list-style-type: none"> ✓ Dotplots are done and not easy to compare. ✓ Some minor errors in the calculations ✓ Missing some calculations 	<ul style="list-style-type: none"> ✓ Dotplots are done but has at least two major errors ✓ Summary statistics are incorrect 	<ul style="list-style-type: none"> ✓ Dotplots are done 	
Variable #1	<ul style="list-style-type: none"> ✓ Histograms are done correctly and easy to compare 	<ul style="list-style-type: none"> ✓ Has one minor error, such as using different scales for the histograms or making an error in the calculations 	<ul style="list-style-type: none"> ✓ Includes histograms, but has at least two minor errors or does not include a summary of statistics 	<ul style="list-style-type: none"> ✓ Includes histograms 	
Variable #2	<ul style="list-style-type: none"> ✓ Boxplots are done correctly and easy to compare ✓ Provides evidence of check for outliers 	<ul style="list-style-type: none"> ✓ Has one minor error, such as using different scales for the boxplots, making an error in the calculations, or not showing check for outliers 	<ul style="list-style-type: none"> ✓ Includes boxplots, but has at least two minor errors or does not include summary statistics 	<ul style="list-style-type: none"> ✓ Includes boxplots 	
Comparisons and Conclusions	<ul style="list-style-type: none"> ✓ Correctly compares both sets of distributions using the characteristics of shape, center, spread and outliers. ✓ Correctly uses the results from both comparisons to give an overall answer to the question of interest 	<ul style="list-style-type: none"> ✓ Compares both distributions but doesn't use all four characteristics ✓ Provides an overall answer to the question of interest 	<ul style="list-style-type: none"> ✓ Compares one set of distributions and gives an overall answer to the question of interest or just compares both sets of distributions 	<ul style="list-style-type: none"> ✓ Compares one set of distributions or gives an overall answer to the question of interest 	
Overall Presentation/Communication	<ul style="list-style-type: none"> ✓ Clear holistic picture of the investigation. ✓ Investigation is well organized, neat and easy to read ✓ Ideas are well communicated, including appropriate transitions between sections. ✓ Clearly contrasts the concepts of performance and ability in context. 	<ul style="list-style-type: none"> ✓ 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. 	<ul style="list-style-type: none"> ✓ Investigation is somewhat organized, but has several major problems. 	<ul style="list-style-type: none"> ✓ Communication and organization are poor. 	