

Chapter 1 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. ✓ Specifically describes how the data was collected (including source) ✓ Type and amount of data is appropriate to answer the question of interest. 	<ul style="list-style-type: none"> ✓ Has a specific question of interest and uses appropriate data, but doesn't adequately introduce the context or describe how the data was collected. 	<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. 	
Graphs and Summary Statistics	<ul style="list-style-type: none"> ✓ Includes the number of successes and failures in each context. ✓ Includes appropriate types of graphs (pie, bar, segmented) ✓ Graphs are clearly labeled and easy to compare. ✓ Graphs are discussed/compared correctly. 	<ul style="list-style-type: none"> ✓ Appropriate graphs are included, but graphs are not well-labeled, not easy to compare, or not compared or the number of successes and failures in each context are not included. 	<ul style="list-style-type: none"> ✓ Includes data and appropriate graphs, but there are several problems (e.g. graphs are incorrect or have other major problems). 	<ul style="list-style-type: none"> ✓ Some graphs or data are included. 	
Analysis/Simulation	<ul style="list-style-type: none"> ✓ Clearly describes method for simulating the performance and includes an adequate number of trials. ✓ Displays results of each simulation in a clear, well labeled dotplot. 	<ul style="list-style-type: none"> ✓ Conducts reasonable simulations, but there is a small error in the method, the method is not clearly described, or there are not an adequate number of trials. 	<ul style="list-style-type: none"> ✓ Attempts 2 simulations to investigate if the performance could happen by random chance. 	<ul style="list-style-type: none"> ✓ Attempts to analyze the data. 	
Conclusions	<ul style="list-style-type: none"> ✓ Correctly describes the performance as likely or unlikely to happen by random chance. ✓ Correctly uses the results of the simulation to draw an appropriate conclusion about the question of interest. ✓ Shows evidence of critical reflection (e.g. discusses possible errors, shortcomings, limitations, alternate explanations). 	<ul style="list-style-type: none"> ✓ Makes the correct conclusion based on simulations. ✓ Shows some evidence of critical reflection. 	<ul style="list-style-type: none"> ✓ Makes a partially correct conclusion based on simulation. ✓ Little evidence of critical reflection. 	<ul style="list-style-type: none"> ✓ Makes a conclusion. 	
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 at least two major problems. 	<ul style="list-style-type: none"> ✓ Communication and organization are poor. 	