

EXHIBITION PROPOSAL

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Date of Submission: January 26, 2008

Use this sheet to develop your Exhibition Project Proposal. Make sure you address each of the components. Using this exact Outline as a template, type a final draft for submission to the Exhibition Proposal Committee. **Note: You must spend at least two (2) contact hours working on the proposal with your mentor.**

I. CORE QUESTION AND PROJECT TITLE

Based on your interests, clearly stated as a question, open-ended and exploratory, related to real work issues whenever possible, and directed toward a path to knowledge.

Core Question:

How can a study of statistics help to predict outcomes during the Major League Baseball season?

Title for my Exhibition project:

Baseball and Statistics

II. EXPLANATION OF TOPIC SELECTION

Write a brief explanation of why you chose this particular field of inquiry, industry, or discipline to investigate.

Since my great-great-great grandfather invented the game of baseball, the sport has always held a special place in my heart. One can say baseball is in my blood. I have been playing the sport and watching Major League games since as long as I can remember. Of course statistics have also been an important element in baseball and many people enjoy studying the relationship between the game and the accompanying data. In the past two decades, the number of fantasy baseball players has skyrocketed as people become more interested in the statistics of the game. Therefore, I would like to explore if there is truly a relationship between the statistics and the game, and if the relationship can accurately predict the outcomes based on analysis.

III. PROBLEM SOLVING

Identify your problem and possible solution.: An essential element of the Exhibition process is for you identify solutions to problems inherent in your topic. Generating solutions will provide the opportunity for you to apply what you have learned through your research. What are the problems or unsettled issues that are connected to your topic? How do you plan on solving those problems?

There are several different types of problems that I need to address in this project. First, I have to deal with discipline and content issues. I am currently enrolled in the AP Statistics class with Mr. Bitton and I need to find the appropriate statistical models to apply to the project. Even if I can successfully find the right formulas to use, I need to ascertain if they would work for baseball and the types of statistics they keep. Baseball

Comment [MSOffice1]: The core question should be open-ended, exploratory, rooted in real world issues, commits you on a path to knowledge, and based on personal interest.

Comment [MSOffice2]: The title is acceptable, but it is too basic and not provocative. This title may not be the final title. The proposal may go through changes as you progress through Exhibition.

Comment [MSOffice3]: Make this section personal.

Comment [MSOffice4]: This section provides a justification for exploring this topic

Comment [MSOffice5]: This sentence explains what you actually plan to do in your Exhibition

Comment [MSOffice6]: In any Exhibition, there are many problems inherent in the topic. Try to identify as many problems as possible in this section. How will you solve/answer your core question?

managers and players use statistics to guide their decisions on the fields all the time. The main problem is then to see if their reliance on statistics is justified. Mr. Bitton has agreed to be my mentor and I am certain his expertise in both mathematics and baseball will guide me to a successful resolution.

The second problem is sorting through all the numbers that goes along with the game and try to find the ones that are most important. They have been keeping statistics on baseball since my ancestor invented the game in the 19th century and there is a lot of data to study. Finding statistics should be easy since there are numerous databases online and the library already has a copy of Total Baseball. This issue is something that will take patience and time to resolve.

IV. CONTENT STANDARDS OR INDUSTRY STANDARDS AND GRADE SPAN EXPECTATIONS

Select at least one **content area** or industry and the related performance **standards** in addition to appropriate **Grade Span Expectations (GSEs)** that will be addressed by the project. **Type** the content standard(s)/GSE(s) in full, including the **discipline, standard number or letter, bullets**, etc. as well as the **exact wording of the standard**. If you are using an Industry Standard, please site that standard in its complete form and indicate the source of this information.

Rhode Island Mathematics Grade Span Expectations (GSE)

Data, Statistics, and Probability

M(DSP)–10–5: Solves problems involving experimental or theoretical probability.

Rhode Island Writing Grade Span Expectations (GSE)

Reflective Writing

W–12–14.2: Analyzing a condition or situation of significance or developing a commonplace, concrete occasion as the basis for the reflection

VI. PRELIMINARY LIST OF RESEARCH RESOURCES

Develop a list of 2 specific resources (books, journals, websites, individuals, industries, or organizations) that you will need to consult to complete this project.

Note: By the completion of exhibition you will need a total of 5 sources.

"Baseball-Reference.Com - Major League Baseball Statistics and History." Baseball-Reference.Com. 28 Oct. 2007. Sports Reference, LLC. 26 Jan. 2008
<<http://www.baseball-reference.com/>>.

Thorn, John, Pete Palmer, Michael Gershman, Matthew Silverman, Sean Lahman, and Greg Spira, eds. Total Baseball: the Official Encyclopedia of Major League Baseball. 7th ed. New York: Total Sports, 2001.

Comment [MSOffice7]: This first problem identifies the main issue of the whole Exhibition project.

Comment [MSOffice8]: These are often very difficult to find, but your content-area teachers and/or mentor should be able to help you find one that applies to your project. Discern the larger area of study that applies to your project, then look for the standards of a professional organization (i.e. APA, Sociology, NCTE).

The GSEs should be available through your mentor as well

Comment [MSOffice9]: Be sure these are specific and valid research sources in MLA format.

VII. SIGNATURES

Meet with your mentor and review this proposal. Once reviewed and mutually agreed upon, you, your mentor, and your parent/guardian must sign and date below.

Mentor Signature Date

Student Signature Date

Parent/Guardian Date

Comment [MSOffice10]: The proposal should only be signed once it has been edited, revised, and approved by your Exhibition teacher.