



Scientific Minds of America  
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## Scientific Minds of America Project Abstract

*Researchers in the SMOA Research Division carry out an authentic, advanced research project which is capable of evaluating its quality, authenticity, and novelty. The following information, written by the student provides an overview of the project proposal as planned.*

**Researchers:** Arjun Kanjarpane, Shreyas Jammi,  
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**Date:** February 15, 2019

**Research Title:** Socioeconomic status on Long & Short Term Academic Performance within Baltimore City Students

### **Purpose:**

- Conduct research on different types of Baltimore City Public School students across socioeconomic status, inter-family drug use, family stability, and economic bracket.
- Decipher and conclude specific limiting factors contributing to lower academic performance, quarter-wise and year-wide.
- Examine and develop a proposal to implement a series of SMOA courses (if needed) to increase academic performance.

### **Product or Outcome:**

- Data related to student socioeconomic status collected anonymously.
- Presentations to Baltimore City School Board across student performance and given proposals
- Submission to SMOA-SMEATON network and National High School Journal.

**Novelty:** Family stability, socioeconomic status, and inter-family drug use have, for an extended period of time, been correlated to decreased academic performance within students. However, data for Baltimore City students is sparse, and survey data display inconsistencies. Furthermore, existing data is dated and does not represent the constantly changing student dynamic, especially given the recent significance of social media.

**Audience:** Possible audiences include the Baltimore City School Boards, school principals, and related academic advisors. Furthermore, implications of this research relate to, and are important to teachers across the country in terms of covering school material in a fashion which combats the negatory effects students may experience at home.

### **Process:**

1. Review over 40 professional journal articles consisting of background knowledge and information about the topic.
2. Find, interview and receive guidance from a panel of advisors
3. Collect original data from student-sourced, anonymous surveys which inquire about socioeconomic status and family structure, as well as academic performance.
4. Use existing background knowledge, in addition to analyzing data to draw conclusions (if evident) about socioeconomic factors which harm Baltimore City Public School students.
5. Develop and propose a SMOA-specific plan relating to the implementation of dynamic SMOA sessions to foster non-violent, academic thinking in Baltimore City youth.
6. Generate a publishable article using confirmed data and original analysis and thought processes by analyzing given data
7. Create a visual display board which synthesizes information gathered to be exhibited at various science fairs, exhibitions, and SMOA conferences.
3. Spread important information to other colleagues through a presentation format.

Researcher Signatures \_\_\_\_\_