# NYC Schools SAT Performance Analysis

## Introduction

This report analyzes the SAT performance of NYC schools with a focus on three key objectives:  
1. Identifying schools with the best math results.  
2. Listing the top 10 performing schools based on combined SAT scores.  
3. Determining which borough exhibits the largest standard deviation in combined SAT scores.

## 1. Schools with the Best Math Results

The schools with the best average math results were identified based on their SAT math scores. The following are the top performers in terms of math scores:

- New Explorations into Science, Technology and Math (Math Score: 657)  
- Scholars' Academy (Math Score: 588)  
- Manhattan Hunter Science High School (Math Score: 574)

## 2. Top 10 Performing Schools Based on Combined SAT Scores

The following are the top 10 performing schools in NYC, ranked by their combined SAT scores:

- New Explorations into Science, Technology and Math (1859)  
- Scholars' Academy (1716)  
- Stuyvesant High School (2144)  
- Bronx High School of Science (2041)  
- Staten Island Technical High School (2013)  
- Townsend Harris High School (1896)  
- Eleanor Roosevelt High School (1889)  
- Brooklyn Technical High School (1839)  
- The Beacon School (1764)  
- High School for Dual Language and Asian Studies (1529)

## 3. Borough with the Largest Standard Deviation in SAT Scores

The borough with the largest standard deviation in combined SAT scores was determined by calculating the standard deviation of scores for each borough. The results are as follows:

Manhattan exhibits the largest standard deviation in combined SAT scores, with a value of 230.29.

## Conclusion

The analysis provides insights into the academic performance of NYC schools based on SAT results. Key takeaways include the identification of top-performing schools and borough-level score variations. This information can assist stakeholders in making data-driven decisions for educational improvements.