

# Advanced Math Research

## 2024–2025



### Tactics in Soccer

**GUTERAA AYANA &  
XANDER EHLERT**



What leads to winning in a game of soccer?



### Musical Ability's Correlation to Academics

**TAMSIN BEVERIDGE**

How does musical fitness correlate with math and reading scores?



### Affects of Drug Rationing

**NICHOLAS BROWN &  
NOLAN LAMERE**



How do doctors perceive drug rationing to affect access to drugs, and could there be a better standard practice?



### Social Media Impact on Mental Health

**NATALIE GOODWYNE**

How does the use of popular social media sites impact the self-esteem and social conduct of women and men differently?



### Mind in Motion

**MARK HOFER &  
JAX JULKOWSKI**



How can we develop effective strategies by identifying the aspects of our lives that have the greatest impact on focus, enabling us to provide teachers with insights to help students enhance their executive functioning and task engagement both in and out of the classroom?



### Advanced Basketball Statistics

**SETH JOHNSON &  
WYATT NICHOLSON**



How can a basketball player's value be quantified in one number/statistic?



### Healthcare

**SOPHIE WELSH & RUBY WOLD**



How does an immigrant's healthcare literacy and accessibility to healthcare impact the care they receive?