

Who Wants to be a Mathematician Project**Daily Expectations: (10 points per week)**

- Students will work on their problem and write a summary of their work in their composition book.
- The entries in the composition book are to be dated and checked every day as they walk in to class or as they leave the class
- Students will meet with teacher and discuss weekly
 - progress
 - strategy for solving problems and proving lemmas
 - questions to answer

Final Outcome:

Students or student groups will submit a typed paper and power point presentation summarizing their work. The paper and power point will include

- Introduction
 - statement of overarching question
 - their motivation for solving problems
 - applications of solution to question
 - significance of answering question
 - strategy to solving problem.
- Body
 - theorems and lemmas of their making
 - summary of progress on answering the overarching question
 - dead-ends and roadblocks encountered while attempting to solve the problem
 - significance of what was proven or conjectured
- Conclusion
 - summary of conclusions in relation to original question
 - applications of student work
 - future possible questions or strategies to take

Deadlines

Friday, March 17: Last day to choose Team and Question

Friday, March 24: Last day to change Question

Wednesday, April 12: Peer Review Draft in Google Drive of Paper/Presentation (to be peer reviewed)

Wednesday, April 20: Rough Draft in Google Drive for Mrs. Bailey's Feedback

Tuesday, April 26th: Final Drafts of Presentation and Papers

PRESENTATIONS will occur on April 26th-28th

Roles

- recorder (person writing paper)
- researcher (person making the power point)
- Investigator* (person facilitating discussion, doing most research, only person in group allowed to ask me questions)

*Only for groups of 3

Final grade will be assessed individual work and group presentation

- Students will receive an individual final exam grade based on their individual performance during the month long project and on their individual submitted work.
- Students will receive a group final exam grade based on group overall performance on the presentation.