In order to be matched with a group, submit your form before Oct. 16:
https://goo.gl/forms/4IqVp32FS8UGPijl2

Important Deadlines
- October 29, 2018: project proposal due
- December 7, 2018: project due

Project description
You will be assigned to a group with similar interests to create a project on a mathematical topic of your choice. Some suggestions for topics include: protein folding and P = NP, how bitcoin works, the mathematics behind your favorite game, machine learning, algorithms for solving Rubik’s cubes, infectious disease modeling, the golden ratio and Fibonacci numbers (math in nature), the mathematics of voting, Conway’s game of life. You may of course choose a different topic. I only ask that you pick something that is interesting to you.

The project can be one of many formats:
- **Writing Project.** A minimum of 4 pages. This can be an opinion piece, a research paper, a story, etc., but you must have at least two references.
- **Music or Art Project.** An original piece of artwork related to your mathematical topic. Some suggestions include a video, a sculpture, a skit, a poem, a game, etc. An explanation should accompany your art (100 words minimum). You must have at least one reference.
- **Slideshow Presentation.** A 15 minute presentation to present to the class. An essay of at least 100 words should accompany your presentation. You must have at least two references.
- **Other.** If your group has another idea for your project, feel free to propose it.

Proposal
Each group must submit a typed project proposal which includes (1) your proposed topic, (2) your proposed project format (see above), (3) a brief outline of what you plan to do, (4) possible sources. If applicable, you can also include a list of tasks for each member of the group.

Grading
The total project is worth 20% of your grade. The project proposal and timely google form submission (https://goo.gl/forms/4IqVp32FS8UGPijl2) is worth 3%. Peer evaluations will be worth 2%. The other 15% will be for the final project itself. Projects will be graded on the quality of work, the quality of research, creativity, and sufficient sources.