

## Open Questions About Prime Numbers

The goal of the presentation is to discuss some of the many unsolved problems concerning prime numbers. Your presentation should include at least

- A discussion of the Goldbach Conjecture including its history and any partial results which are known.
- A discussion of the Twin Prime Conjecture including its history and any partial results which are known.
- At least one other unsolved problem.

In addition your presentation should include at least one thing not on the above list.

At the end of your presentation the class will be asked one of the following questions.

- What is the Goldbach Conjecture?
- What is the Twin Prime Conjecture?
- Which of the following is an example of twin primes:  $(2, 3)$ ,  $(5, 7)$ ,  $(7, 9)$ ?

A good starting point for your research is

<http://primes.utm.edu/notes/conjectures/>

If you have any questions regarding the presentation feel free to e-mail your TA or Dr. Ackerman