Peano Arithmetic

The goal of the presentation is to explain what Peano arithmetic is and how it codifies induction. You can find out more about Peano arithmetic at

http://en.wikipedia.org/wiki/Peano_arithmetic

Your presentation should include

- A description description of the axioms of Peano Arithmetic. Make sure to distinguish which axioms are meant to simply describe equality and mention this.

- A discussion of the connection between the axioms and proof by induction.

- A recursive definition of $+, *$

You should also feel free to expand on the above in any directions you would like (so long as they are related to the topic). Some such options are

- History of Peano's arithmetic.

- How would you define exponentiation via recursion?

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