Project presentations

We will spend the last 2-3 classes of the semester having you and your group present a topic that you digested mostly on your own. Here are the rules:

- You will present a topic of your choice to the class. There is a list of suggested topics from your textbook below. You do not need to restrict yourself to the textbook. You can do additional reading/research on the topic and present what you find. If you have a topic different from the suggested ones that you would really like to present, I am open to suggestions, but clear it with me first.
- You will present in groups. Each group should consist of three students. If you really insist on having group of two or four members, and have very good reason for it, talk to me. Each member of the group must take part in presenting.
- A presentation should be 15 mins. This is a short time. Practice your presentation to make sure that you can fit it into 15 mins. Expect that there may be questions and answering them will take some time.
- You can use the whiteboard, the projector, and whatever other resources you may want to bring with you. You are welcome to use Power Point if you'd like, but you don't have to. Keep in mind that simply reading your own slides does not make for a really good presentation. You can include a short video to illustrate some a point, but your entire presentation cannot be a video.
- You are welcome to include an activity to communicate your ideas to your audience, but you don't have to. If you choose to include an activity, do not forget that your time is limited.
- Your presentation will be graded on how well you understand the topic you present and how clearly you present it. See the Presentation rubric for details.

Here are the suggested topics. Choose two, one for your first choice and one for a backup. I will ask you next time for your choices. There are enough interesting topics that we do not want to have two groups present the same topic. This is why I am asking you to have a backup choice. We will figure out who is presenting what in the next class. You won't have to prepare both topics.

- 2.3 Prime Cuts of Numbers
- 2.5 Public Secret Codes and How to Become a Spy
- 2.6-2.7 Irrational and Real Numbers
- 3.4 Travels Toward the Stratosphere of Infinities
- 3.5 Straightening Up the Circle
- 4.2 A View of an Art Gallery
- 4.4 Soothing Symmetry and Spinning Pinwheels
- 4.6 The Shape of Reality?
- 4.7 The Fourth Dimension
- 5.4 Fixed Points, Hot Loops, and Rainy Days
- 6.3 Plane Old Graphs
- 6.4 Networking

- 7.2 The Infinitely Detailed Beauty of Fractals
- 7.3 Between Dimensions
- 7.5 The Dynamics of Change
- 7.6 Predetermined Chaos
- 10.1 Great Expectations
- 10.4 Peril at the Polls
- 10.5 Cutting Cake for Greedy People