GRAPHING AND DATA ANALYSIS

Minimum materials required:

- *Compiled Master Data Table* (printed from the Excel spreadsheet): 1 per student
- 1 Internet-connected computer per team:
    - With Microsoft Excel and an electronic copy of students compiled master data table
- *Data Analysis Planning* handout: 1 per student (students should already have this handout)
- *Data Analysis* handout: 1 per student

During this session, students should discuss and finalize their ideas from their homework and *Data Analysis Planning* handout.

- Small Research Teams: Students can discuss their ideas from their homework and *Data Analysis Planning* handout. They should finalize and decide what graphs they will want to create for their project and who will be responsible to make what graph. Each team does not need to make each graph (unless there is time). Students can make graphs using a computer or "by hand". The most important aspect of the data analysis will be for them to make observations and interpretations of the data.

Students should use their compiled master data table to create their graphs. An electronic copy of this should be available to students on the computer they will work with. Students should also each have a hard copy of the compiled master data table, if possible. Students can refer to the *Data Analysis Practice Guide* for assistance in making their graphs if necessary.

NOTE: To avoid loss or corruption of the electronic copy of the compiled master data table it is recommended to have each team working to make a graph save the master data table file with a different name. For example, students could rename the file as "MasterTable_Team1".

Once graphs are made, students should use the *Data Analysis* handouts to write down the observations and interpretations of each graph or at least the graph(s) they made.

Download the ***Data Analysis*** handout.

HOMEWORK RECOMMENDATION:
1. Provide students with a print out of any or all the graphs they have made and have them complete the *Data Analysis* sheets at home.