General Instructions

1. Please place your school name and team number at the top of your spreadsheet and word processing files.
2. Your spreadsheet should include both a data table and the required chart. Your word processing file needs to include the answer and URLs for the questions.
3. Reference materials and calculators are not permitted. You may use blank scrap paper to organize your work.
4. No external communication with others (e-mail, chat, forums, etc.)
5. Please raise your hand if you have a technical problem.
6. Please speak with a low tone with your partner.
7. When you are done, print your work, and clean your work area. GOOD LUCK!

Graphical Problem

Smoking harms nearly every organ of the body, causing many diseases and affecting the health of smokers in general. CDC tracks Tobacco production and consumption in US and its effect on the overall health of the population. Please go to CDC website to find the US tobacco production (pieces per year) and the adult smoker percentage from 2001 to 2007.

List all the information in a spreadsheet table and use the data to create a graphical chart. You should use horizontal axis for the years with label **2001, 2002, ... 2007**, Left vertical axis for annual cigarette production with label "**US Cigarette Production (Billion Pieces)**", and right axis for the US adult smoker percentage with label "**US Adult Smoker (%)**". Please use chart type <u>Lines with markers</u> for Cigarette Production and Adult Smoker on a single chart. <u>Add Data Labels</u> to Cigarette Production line.

Please include a <u>Title</u> "**Cigarette Production and Adult Smoker in the US**" above the chart and <u>label each axis</u> as described above. <u>Add Legend</u> to indicate what each line color represents. Include your **School Name and Team Number** on your spreadsheet file.

Short Answer Questions

In a word processing document, please provide the answer and associated URL for <u>each</u> of the following questions. Official <u>www.cdc.gov</u> site should only be referenced. Please note that some questions have multiple parts and questions need not be answered in complete sentences. Just make sure to write the question number before your answer. Print out when finished.

1. Based on CDC study, what is the leading cause of preventable death in the United States in 2011 and how many people are still smoking in 2011 (in millions)?

2. List four health effects of smoking.

3. Does any of these three places in Michigan, Government worksites, Private Worksites, and Restaurants, allow smoking. What is the Michigan cigarette tax per pack.

4. What is secondhand smoking? What is its effect on Children?

5. What does NTCP stand for, When was it created? What are the four goals of NTCP?

Print your work!

COMPUTE THIS!
2012 Phoenix Invitational
Scoring Rubric

School Name _____   Team Number _____

Student Name   1. _____   2. _____

DO NOT WRITE BELOW THIS SPACE…FOR SUPERVISOR USE ONLY

Completeness & Accuracy of Quantitative Data Collected (20 Points)

1. Data table includes number of Tobacco Production   _____ (5)

2. Data table includes amount of US adult smoker percentage   _____ (5)

3. Information in data table is accurate according to CDC website   _____ (10)

Completeness, Accuracy, and Format of Graphical Data (30 Points)

1. School Name /Team # /Chart Title placed above the chart   _____ (6)

2. Two (2) line curves used in the chart   _____ (6)

3. Graphical data matches with quantitative data   _____ (6)

4. X-axis, Left Y-axis and Right Y-axis correctly labeled   _____ (6)

5. Legend is correctly applied   _____ (3)

6. Data labels added to Cigarette Production lines   _____ (3)

Answers and URLs for Short Answer Questions (50 Points)

1. Each question (4) x 2 and URL (2)   _____ (10)

2. Each effect (2) x 4 and URL (2)   _____ (10)

3. Each answer (4) x 2 and URL (2)   _____ (10)

4. Each answer (4) x 2 and URL (2)   _____ (10)
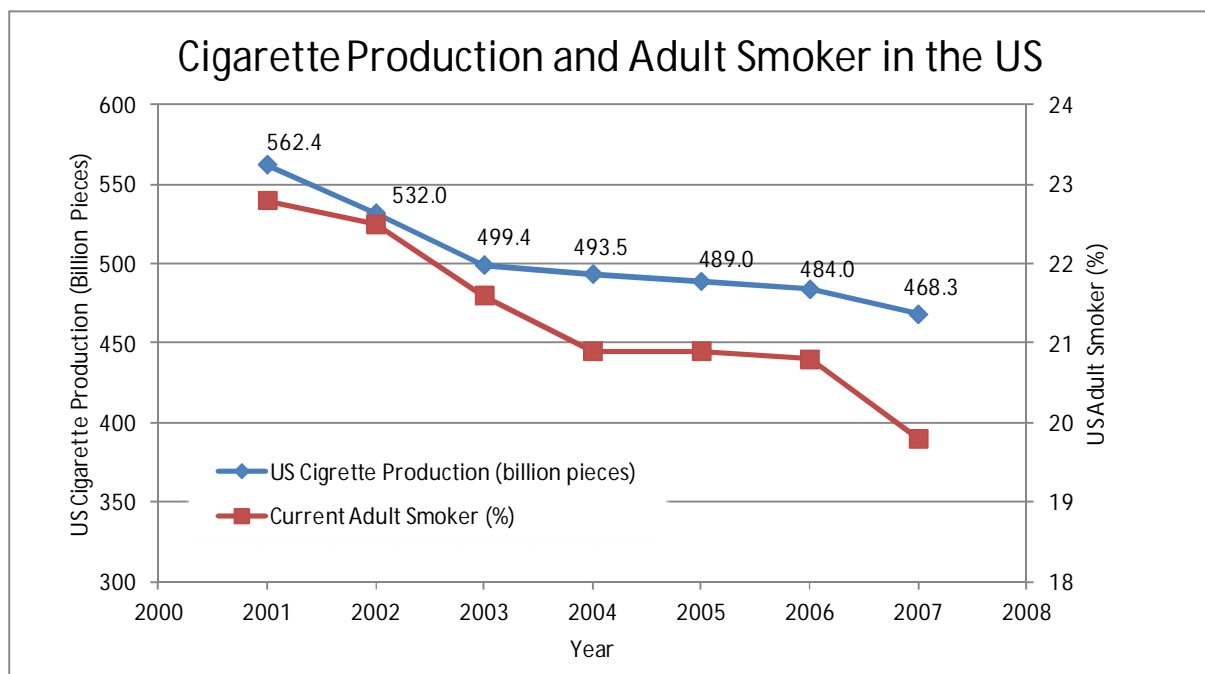
5. Each answer (4) x 2 and URL (2)   _____ (10)

TOTAL SCORE: _____   PLACE: _____

TIE BREAKER: [ ] Short Answer Questions [ ] Quantitative Data Collected   [ ] Overall Graphical Quality

Answers to Data and Chart

School Name: _____   Team #: _____

Year	US Cigrette Production (billion pieces)	Current Adult Smoker (%)
2001	562.4	22.8
2002	532.0	22.5
2003	499.4	21.6
2004	493.5	20.9
2005	489.0	20.9
2006	484.0	20.8
2007	468.3	19.8

Cigarette Production and Adult Smoker in the US

http://www.cdc.gov/tobacco/data_statistics/tables/economics/expdcom/

http://www.cdc.gov/nchs/data/nhis/earlyrelease/earlyrelease201006.pdf#page=52

Short answer questions:

1. Based on CDC study, what is the leading cause of preventable death in the United States in 2011 and how many people are still smoking in 2011 (in millions)?

   Tobacco Use and 45.3 million
   http://www.cdc.gov/tobacco/data_statistics/vital_signs/index.htm

2. List three health effects of smoking.

   Smoking cause Death, Coronary heart disease, Cardiovascular, and Respiratory disease.
   http://www.cdc.gov/tobacco/data_statistics/fact_sheets/health_effects/effects_cig_smoking/

3. In 2012, Does any of these three places in Michigan, Government worksites, Private Worksites, and Restaurants, allow smoking? What is the Michigan cigarette tax per pack in 2012?

   Non of these places. $2.0 per pack
   http://apps.nccd.cdc.gov/statesystem/HighLightReport/highlightReport.aspx?StateID=MI&StateName=Michigan&DeliverableID=0&DraftInd=P&FromHomePage=Y

4. What is secondhand smoke? What is its effect on Children?

   Secondhand smoke is a mixture of gases and fine particles that includes—
   - a. *Smoke from a burning cigarette, cigar, or pipe tip.*
   - b. *Smoke that has been exhaled or breathed out by the person or people smoking.*
   - c. *More than 7,000 chemicals, including hundreds that are toxic and about 70 that can cause cancer.*

   In children, secondhand smoke causes the following:

   - *Ear infections*
   - *More frequent and severe asthma attacks*
   - *Respiratory symptoms (e.g., coughing, sneezing, shortness of breath)*
   - *Respiratory infections (i.e., bronchitis, pneumonia)*
   - *A greater risk for sudden infant death syndrome (SIDS)*

   http://www.cdc.gov/tobacco/data_statistics/fact_sheets/secondhand_smoke/general_facts/index.htm

5. What does NTCP stand for and when was it created? What are the four goals of NTCP?

   National Tobacco Control Program. Created in 1999
   The four goals of NTCP are to

   - *Eliminate exposure to secondhand smoke*
   - *Promote quitting among adults and youth*
   - *Prevent initiation among youth*
   - *Identify and eliminate disparities among population groups*

   http://www.cdc.gov/tobacco/tobacco_control_programs/ntcp/index.htm