**Facilitation & Grading: What the World Eats**

Facilitation Guide

Teacher will distribute the worksheet for “What the World Eats” and tell students to work in groups of three to follow the instruction on the worksheet. The instructions should be clear enough that they can get started without further introduction.

Students will use their computers to access the Time photo essay and the Wikipedia list to begin to fill out the table. Allow students to spend some time looking at the pictures and get beyond the simplistic math task to reach some understanding of the quality of life differences in different parts of the world.

The questions following the table are specifically math oriented (create scatterplot, determine correlation, draw line of best fit, write the equation of the line). This worksheet is expected to take approximately 30 minutes.

During the debrief after students have completed their worksheets, ask each group to display their scatterplot and present their findings for the questions. Each group will be different because they were given the freedom to choose different countries from the photo essay. After debriefing the math part of the activity, lead a short discussion about the social content, of the relationship between food and wealth.

Grading Guide

#2. Fill in the table below for ten countries of your choice based on information you gathered from the resources above.

**5 points** (1/2 point per row) for accurately filling in the table for ten countries of their choice.

#3. Using the information from the table above, create a scatterplot below of weekly food expense per capita (on the y-axis) and wealth per capita (on the x-axis).

 **2 points** for an accurate scatterplot based on the table above

 **2 point** for labeled axes

#4. Look at the scatterplot. What is the correlation? Circle one, and use the extra space to explain the reasons for your choice:

 **2 points** for choosing the correct correlation

 **2 points** for an explanation defending their correlation

#5. If there was a correlation in the data, draw a line of best fit on the graph. Also find the slope, y-intercept, and equation of the line. Use the extra space provided to show your calculations.

 **1 points** for the line of best fit

 **2 points** for slope

 **2 points** for y-intercept

 **2 points** for equation

**Total point value: 20 points**