**Subject area/course**: Mathematics/Statistics

**Grade level/band**: 9-12

**Task source**: Asia Society; Author: Clint Clark

**World Hunger Summit: Political and Economic Issues**

**STUDENT INSTRUCTIONS**

1. **Task context**:

The United Nations is a group of 193 member countries that work together to promote international security, economic development, social progress, and peace. Currently, only three nations are not members of the United Nations. The Model United Nations (MUN) is a student-led activity that simulates the work of the actual United Nations.

In this project, you will play the role of a social development analyst for the MUN representing the country of your choice. This particular summit aims to create a projection of the world five years from now. Your responsibility is to provide a clear picture of your country’s progress on many social issues and share mathematical models that project five years into the future.

You are responsible for analyzing at least six of the variables below. Your goal is to develop mathematical models that will help the international community decide how to help your country.

* Gross Domestic Product (GDP)
* GDP per capita
* Total population
* Underweight children
* Infant mortality
* Life expectancy at birth
* Percentage of population in extreme poverty (Earning less than $2 per day)
* Human Development Index
* Food supply
* Agriculture
* Access to Internet
* Average number of years that girls attend school

Note that you may not find complete data for your country. If you are interested in studying a different variable that seems to be more relevant for your country, share the dataset with your teacher for his or her approval.

1. **Final product**:

Create a fact sheet about your country that you can distribute to your classmates during the MUN presentation day. Also, prepare a visual presentation about your country’s issues. Be sure to include a scatterplot and best fit function of what you believe is your most important finding, as well as your recommendation for strategies to meet the needs of your country.

**Additional Information**

1. **Knowledge and skills you will need to demonstrate on this task:**
* Research
* Finding correlations that could explain various statistics
* Citing your data sources
1. **Materials needed:**

Research and gather data for the indicators listed above. Cite your sources for each dataset that you collect. The following sites are a good place to start.

* Gapminder (http://www.gapminder.org/)
* The World Bank (http://data.worldbank.org/)
* Nation Master (http://www.nationmaster.com/)
* Wolfram Alpha (http://www.wolframalpha.com/)
* Food and Agricultural Organization of the United Nations
(http://www.fao.org/home/en/)
* The World Fact Book, by the CIA
(https://www.cia.gov/library/publications/the-world-factbook/)

You may need a graphing calculator or graphing software.

1. **Time requirements:**

You will have between one and two weeks to complete this task. Your teacher will give you specific deadlines.

1. **Scoring:**

Your work will be scored using the Model United Nations Student Rubric. You should make sure you are familiar with the language that describes the expectations for proficient performance.