**LAND GRAB ACTIVITY FACILITATION**

**Facilitation**

Students will be asked to quickly consider how biofuels might affect land usage.  A short class discussion will follow, which will focus on farmland that may be used primarily for biofuel production rather than food production.  Then students will receive the Land Grabs worksheet, which gives data on total land area, arable land area, and land area reportedly set aside for biofuels in Sierra Leone.  They will complete the worksheet by using ratios, proportions, and percentages to make different calculations about land usage in Sierra Leone.  Then they will have to create some type of visual representation of land usage in Sierra Leone, such as a graph or chart. They will have the option of using programs, such as Excel, to make graphs, or to make their visual representation by hand using poster paper and markers.

Questions for leading class discussion on how biofuels might affect land usage:

* What do we know about biofuels so far? Where do they come from?
* If we use plants to create these biofuels, where are the plants coming from?
* Do we have enough land to grow food and plants for biofuels?
* How are we going to obtain more land?

**Rubric**

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| Question 1 | No attempt was made to complete the problem.  0 points | Student attempts to solve the problem but makes few calculation mistakes  1.5 point | Student correctly solves the problem  3 points | Total: |
| Question 2 | No attempt was made to complete the problem.  0 points | Student attempts to solve the problem but makes few calculation mistakes  1.5 point | Student correctly solves the problem  3 points | Total: |
| Visual Representation | No visual representation was made  0 points | A visual representation was made, but information is unclear or key information is missing.  3 points | A clear visual representation is made and key information is included.  6 points | Total: |

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Score: