**PBL Initial Individual Research** Due 11/30/15 PBL site: **sharethespark.weebly.com**

Start researching and thinking of ideas! Plan on spending at a minimum 4-6 hours for this homework. Save the facts and websites you find by starting a document or writing it down to show in class on Monday.

**Operations Manager:**

* Research:
  + Possible cost of materials you may use for your solution
  + Cost of shipping options from here to Tanzania
  + The current cost of electricity / fuel / etc. in Tanzania
* Write down at least 3 ideas of how you could create something to solve the “problem” you chose to help improve at St. Timothy’s school. (be specific)

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**Energy Engineer:**

* Research:
  + Energy transfers/conversions that might be a part of your solution
  + How to solve or find the efficiency of your energy source.
  + Examples of how to diagram / show energy transfer clearly
* Write down at least 3 ideas of how you could create something to solve the “problem” you chose to help improve at St. Timothy’s school. (be specific)

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**Site Analyst:**

* Research:
  + Climate and weather conditions for Moshi Tanzania
  + the school grounds or layout of the school buildings (could watch videos or research the school itself)
  + renewable energy sources near the school or in Moshi Tanzania
* Write down at least 3 ideas of how you could create something to solve the “problem” you chose to help improve at St. Timothy’s school. (be specific)

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**Electrical Engineer**

* Research
  + How much energy (or power) is needed at the school for the “problem” you are trying to solve
  + Possible circuits or wiring for your solution (how do you wire your idea)
  + Schematics for wiring your solutions
* Write down at least 3 ideas of how you could create something to solve the “problem” you chose to help improve at St. Timothy’s school. (be specific)