

## **STEM Schools Initiative**

### **PBL: Foodborne Illnesses**

This kit is for a Foodborne Illness simulation for 6<sup>th</sup>-8<sup>th</sup> grades. It does make use of a 2-way table, so it is great for Math 8 Unit 6. But, it may be used for ratios and percent as well. The directions are enclosed and included in Math Department 6-12 blackboard under the STEM folder.

Best tips:

- Use baking soda to contaminate a few random cups ahead of time so there is a probability that people are sick even if they do not “eat” the food
- Use about 3 teaspoons of baking soda in the “item” you choose to contaminate if you fill the cup up with water-use Styrofoam cups to mask possible cloudiness
- Phenol Red will turn the color of the water-I don’t suggest using it-it is difficult to tell the difference between fuchsia and orange.
- Research salmonella before presenting-many people have questions on how it spreads

If you have any questions, please contact: [michelle.mikes@cobbk12.org](mailto:michelle.mikes@cobbk12.org)