

Great Probability Challenge Mission 3 Lesson Plan

Lesson Topic:

Pooled data analysis

Learning Objectives:

Students will:

- Students will add their experimental findings to the Global Coin Toss Database
- Students will compare and analyze their individual results with the data from the pooled database
- Students will create visual representations of their analysis in Microsoft Excel
- Students will understand that the size of the data sample influences the outcome

Lesson Activities:

1. Students access [Mission 3](#) of the Great Probability Challenge
2. Students click on the Global Coin Toss Database link and fill out all the required fields and submit their information.
3. Students analyze and compare their personal coin toss results with the total in the Global Coin Toss Database
4. Students create a comparing bar-graph in Microsoft Excel

Students follow the directions provided in the screen cast.

5. Students reflect upon their visual representations in the Probability Blog
Students answer the discussion prompts for Mission 3