

Collecting, Representing and Analyzing Data: An Introductory Unit for Middle School Students on Linear Regression

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Lab Connection: Microwave Magnetic
Materials and Integrated Circuits

Dr. Nian Sun

Two Lessons from the Unit

- Introductory Lesson: Backpacks
 - 1.) Create a scatterplot
 - 2.) Draw a trend line (determine its equation)
 - 3.) Analyze why and how theoretical data may be different from experimental

- Final Activity: Hand Length
 - 1.) Consider what physical attributes may have a relationship between hand length
 - 2.) Collect and analyze data to prove (or disprove) hypothesis
 - 3.) Use technology to find equation for line of best fit

Credits

- Ann Lawrence and Charlie Hennessy
for Backpack lesson
(<http://www.mathsolutions.com/index.cfm?page=wp9&crid=67>)
- Dr. Nian Sun's Lab
- Claire Duggan
- Matthew Corcoran