Using Data in the Classroom
Reading List (compiled by Kirk Borne, July 2015)

"Big Data: The next frontier for innovation, competition, and productivity" (McKinsey report 2011)
http://www.mckinsey.com/insights/business_technology/big_data_the_next_frontier_for_innovation

Data Science and Data Literacy – A National Imperative:
http://www.kirkborne.net/DataInEducation/DataLiteracy-NationalImperative.pdf

"Using Data in the Classroom" (resources for educators):
http://serc.carleton.edu/usingdata/index.html

Oceans of Data articles: (1) "Build a research-based learning progression to make meaning from data" and (2) "Transform science education to prepare students for a data-intensive world"
http://www.oceansofdata.org/

Data in the Classroom: http://dataintheclassroom.noaa.gov/

NASA/IPAC Teacher Archive Research Program (NITARP)
http://nitarp.ipac.caltech.edu/resource_category/4-For-the-classroom

My NASA Data: http://mynasadata.larc.nasa.gov/

BigDataX = Big Data Research Experiences for Undergraduates

NSTA resources:
- The Basics of Data Literacy: Helping Your Students (and You!) Make Sense of Data
- Career of the Month: An Interview with Data Scientist Daniel Tunkelang
- Use of Genomic Databases for Inquiry-Based Learning About Influenza
- Using a Classroom Response System for Real-Time Data Display and Analysis in Introductory Biology Labs:
  http://eric.ed.gov/?id=EJ921506
- The Virtual Vee Map: A Template for Internet Inquiry

More reports posted here: http://kirkborne.net/DataInEducation/DataInEducationReports/
- "Big Data Enabled Specialist Profile"
- "Data Science in the Statistics Curricula: Preparing Students to Think with Data"
- "Learning To Learn From Data"
- "Visualizing Oceans of Data - Educational Interface Design"
- "Mathematics in Industry" (SIAM report)
- "Training Students to Extract Value from Big Data" (National Academies publication)
- "Using Data In Undergraduate Science Classrooms"

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