

**NISS K-12 Webinar Resource List**  
**Anna Bargagliotti, Christine Franklin, and Rob Gould**

**Important Reports**

Pre-K-12 Guidelines for Assessment and Instruction in Statistics Education II (GAISE II)  
<https://www.amstat.org/asa/education/Guidelines-for-Assessment-and-Instruction-in-Statistics-Education-Reports.aspx>

The Statistical Education of Teachers (SET): <https://www.amstat.org/asa/files/pdfs/EDU-SET.pdf>

The NCTM Catalyzing Change Reports: <https://www.nctm.org/Standards-and-Positions/Catalyzing-Change-Additional-Resources/>

**Very Recent Articles Describing Examples of Data Science at the School Level**

Harvard Data Science Review (HDSR) Journal— Two articles introducing GAISE II and Level A. Articles on Level B and Level C to appear later in 2021 <https://hdsr.mitpress.mit.edu/pub/cqncbp3l/release/3>  
<https://hdsr.mitpress.mit.edu/pub/wqoysrrt/release/2?readingCollection=3572f4eb>

Ask Good Questions Blog – “Lizards and Ladybugs” <https://askgoodquestions.blog/2020/08/10/58-lizards-and-ladybugs-illustrating-the-role-of-questioning/>

Significance Journal - “As Covid makes clear, statistics education is a must”

<https://rss.onlinelibrary.wiley.com/doi/full/10.1111/1740-9713.01509>

Association for Women in Mathematics (AWM)

<https://awm-math.org/wp-content/uploads/2020/10/AWM-News-NovDec-2020-PRINT.pdf>

Journal of Statistics and Data Science Education (JSDSE) – “What is a Good Statistical Question”  
<https://www.tandfonline.com/doi/full/10.1080/26939169.2021.1877582>

**General Resources**

Visit the wealth of K-12 teacher resources at the ASA education link:

<https://www.amstat.org/asa/education/K-12-Educators.aspx>

Census at School: <https://ww2.amstat.org/censusatschool/>

The Statistics Teacher: <https://www.statisticsteacher.org/>

STEW Lesson Plans: <https://www.amstat.org/asa/education/stew/home.aspx>

This is Statistics – explore careers in Statistics: <https://thisisstatistics.org>

**Software**

CODAP – open source: <https://codap.concord.org/>

Art of Stat – open source applets: <https://artofstat.com>

**Curriculum**

The Mobilize Introduction to Data Science (IDS) Course (open source)  
<https://www.introdatascience.org/>

### **Assessment**

Levels of Conceptual Understanding in Statistics (LOCUS) – NSF Grant – Pre-K-12 Assessment  
<https://locus.statisticseducation.org>

### **Great Blogs**

Skew the Script: <https://skewthescript.org/>

Ask Good Questions: <https://askgoodquestions.blog/>

### **High Quality Free Professional Development**

Amplifying Statistics and Data Science in Classrooms: <http://go.ncsu.edu/amplifystats>

InSTEP: <http://instepwithdata.org>

To be published in 2021 by Joint ASA-NCTM committee:

Book: *Statistics and Data Science for Teachers* – book will be open source

check here for updates: [https://www.amstat.org/AMSTAT/Education/K-12- Educators/ASA/Education/K-12-Educators.aspx?hkey=66767c1e-fea8-43ea-8665-12bf718997f6](https://www.amstat.org/AMSTAT/Education/K-12-Educators/ASA/Education/K-12-Educators.aspx?hkey=66767c1e-fea8-43ea-8665-12bf718997f6)

### **Other Resources**

Teacher Meet Ups K-12 Chats

ASA: <https://www.youtube.com/channel/UCESYnsheh2TcIJZW13sdBQ>

The Messy Data Coalition <https://messydata.org/>

*International Statistical Review* – “Statistics and the Modern Student”

<https://onlinelibrary.wiley.com/doi/abs/10.1111/j.1751-5823.2010.00117.x>

Special Edition of *Teaching Statistics*: "Teaching Data Science and Statistics: senior school or introductory tertiary" An international collection of invited and submitted articles on research and practice.

*Journal of Statistics and Data Science Education*, Volume 29, Issue sup1 (2021): Computing in the Statistics and Data Science Curriculum

"Ensuring that mathematics is relevant in a world of data science" -  
<https://www.ams.org/publications/journals/notices/201709/rnoti-p986.pdf>