

RESOURCES

from

The Role of Teacher Preparation Programs in Retention of STEM Teachers in High-Need Schools

WEBINAR HELD: Thursday, September 27 from 3:30 - 5:00 p.m. EDT

Shared by National Researcher - Dr. Richard Ingersoll, University of Pennsylvania:

- Ingersoll, R., Merrill, L., & May, H. (2014). *What are the effects of teacher education and preparation on beginning teacher attrition?*. Research Report (#RR-82). Philadelphia: Consortium for Policy Research in Education, University of Pennsylvania. <http://www.cpre.org/prep-effects>
- Ingersoll, R. M., & May, H. (2012). The magnitude, destinations, and determinants of mathematics and science teacher turnover. *Educational Evaluation and Policy Analysis*, 34(4), 435-464. <http://www.gse.upenn.edu/pdf/rmi/MathSciTeacherTurnover.pdf>
- Ingersoll, R. M., & Perda, D. (2010). Is the supply of mathematics and science teachers sufficient?. *American Educational Research Journal*, 47(3), 563-594. <http://journals.sagepub.com/stoken/default+domain/10.3102/0002831210370711/full>
- Ingersoll, R., Merrill, L., & May, H. (2012). Retaining teachers: How preparation matters. *Educational Leadership*, 69(8), 30-34. <http://www.gse.upenn.edu/pdf/rmi/EL-May2012.pdf>
- Ingersoll, R. M. (2011). Do We Produce Enough Mathematics and Science Teachers?. *Phi Delta Kappan*, 92(6), 37-41. http://www.gse.upenn.edu/pdf/rmi/Enough_Math_Teachers.pdf

Shared by Preparation Program Principal Investigators – Dr. Courtney Preston, Dr. Miray Tekkumru-Kisa, & Dr. Sherry Southerland, Florida State University:

- Boston, M. D. (2014). Assessing instructional quality in mathematics classrooms through collections of students' works. In (Eds. Y. Li & E. Silver), *Transforming mathematics Instruction: Multiple approaches and practices* (501-523). Switzerland: Springer International Publishing. [Request a copy.](#)
- Tekkumru-Kisa, M., Schunn, C., & Stein, M. K. (in press). Identifying cognitively demanding science tasks for providing opportunities for students to engage in three-dimensional learning. *The Science Teacher*.
- Tekkumru-Kisa, M., Stein, M. K., & Schunn, C. (2015). A framework of cognitive demand and content-practices integration: Task Analysis Guide in Science. *Journal of Research in Science Teaching*, 52(5), 659-685. [Read PDF.](#)

Shared by STEM Teacher Leader – Mr. Christopher Wright, Baltimore County Public Schools:

- This is the website for the Albert Einstein Distinguished Educator Fellowship. Applications are open for the 2019-2020 school year, and are due on November 15, 2018: <https://science.energy.gov/wdts/einstein>
- This Learning Policy Institute website provides a calculator that estimates the cost of teacher turnover for your school and/or district: <https://learningpolicyinstitute.org/product/the-cost-of-teacher-turnover>
- It is important to be up-to-date on developing Federal Policy on teacher recruitment and retention. Here are the websites for the Republican and Democratic starting points for a reauthorized Higher Education Act
 - a. The PROSPER Act – HR4508: <https://edworkforce.house.gov/prosper>
 - b. The Aim Higher Act – HR6543: <http://democrats-edworkforce.house.gov/aim-higher>

Robert Noyce Teacher Scholarship Program Proposal Preparation: Visit <http://www.nsfnoyce.org>