

Additional Readings and Resources

Introduction

[*Cultivating a next-generation classroom culture.*](#) NSTA Science Scope Teachers Toolkit. January 2014. By Chritina Krist, Lisa Brody, Michael Novak, and Keetra Tipton.

Observations and Questioning

[*The Driving Question Board. A Visual Organizer for Project Based Science.*](#) November 2008. By Ayelet Weizman, Yael Schwartz, David Fortus.

[*Scientific and Engineering Practices in K-12 Classrooms. Understanding A Framework for K-12 Science Education.*](#) NSTA Science Scope. December 2011. By Roger Bybee.

Modeling

[*Engaging Students in Scientific Practices: What does constructing and revising models look like in the science classroom?*](#) *Understanding A Framework for K-12 Science Education.* NSTA K-12 Journals. March 2012. By Joseph Kracik and Joi Merritt.

Carrying Out Investigations

[*The integral role of laboratory investigations in science instruction.*](#) NSTA Position Statement.

Explaining Evidence

[*Engaging Students in the Scientific Practices of Explanation and Argumentation. Understanding a Framework for K-12 Science Education.*](#) NSTA K-12 Journals April/May 2012 . By Brian Riser, Leema Berland, Lisa Kenyon.

[*Helping students write scientific explanations.*](#) NSTA Science Scope. September 2019. By Ann Novak, Katherine McNeill, and Joseph Krajcik.

Sharing Information

[*Exploring the Science Framework. Engaging Learners in the scientific practices of obtaining, evaluating and communicating information.*](#) NSTA Science Scope. November 2012 . By Philip Bell, Leah Bricker, Carrie Tzou, Tiffany Lee, and Katie Van Hone.

[*Talk Science Primer.*](#) TERC. 2012. By Sarah Michaels and Cathy O'Connor.