

## Brainstorming Implementation of Student and Teaching Practices

Standards	Ideas for Implementation
<b>STANDARDS FOR MATHEMATICAL PRACTICE</b>	
Make Sense of Problems and Persevere in Solving Them	
Reason Abstractly and Quantitatively	
Construct Viable Arguments and Critique the Reasoning of Others	
Model With Mathematics	
Use Appropriate Tools Strategically	
Attend to Precision	
Look for and Make Use of Structure	
Look for and Express Regularity in Repeated Reasoning	

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Brainstorming Implementation of Student and Teaching Practices (continued)

Standards	Ideas for Implementation
<b>SCIENCE AND ENGINEERING PRACTICES</b>	
Asking Questions and Defining Problems	
Developing and Using Models	
Planning and Carrying Out Investigations	
Analyzing and Interpreting Data	
Using Mathematics and Computational Thinking	
Constructing Explanations and Designing Solutions	
Engaging in Argument From Evidence	
Obtaining, Evaluating, and Communicating Information	

(continued)

Brainstorming Implementation of Student and Teaching Practices (continued)

Standards	Ideas for Implementation
<b>MATHEMATICS TEACHING PRACTICES</b>	
Establish Mathematics Goals to Focus Learning	
Implement Tasks That Promote Reasoning and Problem Solving	
Use and Connect Mathematical Representations	
Facilitate Meaningful Mathematical Discourse	
Pose Purposeful Questions	
Build Procedural Fluency From Conceptual Understanding	
Support Productive Struggle in Learning Mathematics	
Elicit and Use Evidence of Student Thinking	

Sources: Common Core State Standards Initiative (2010); NCTM (2014); NGSS Lead States (2013).

Retrieved from the companion website for *Step Into STEAM: Your Standards-Based Action Plan for Deepening Mathematics and Science Learning, Grades K–5* by Sarah B. Bush and Kristin L. Cook. Thousand Oaks, CA: Corwin, www.corwin.com. Copyright © 2019 by Corwin. All rights reserved. Reproduction authorized for educational use by educators, local school sites, and/or noncommercial or nonprofit entities that have purchased the book.