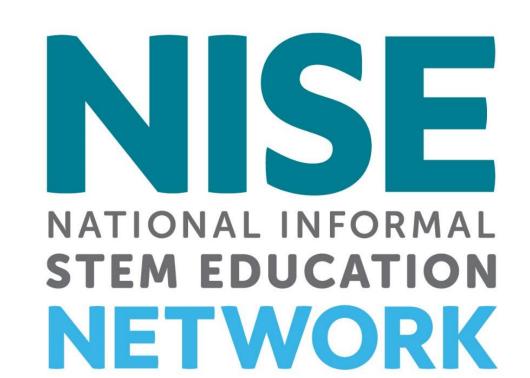
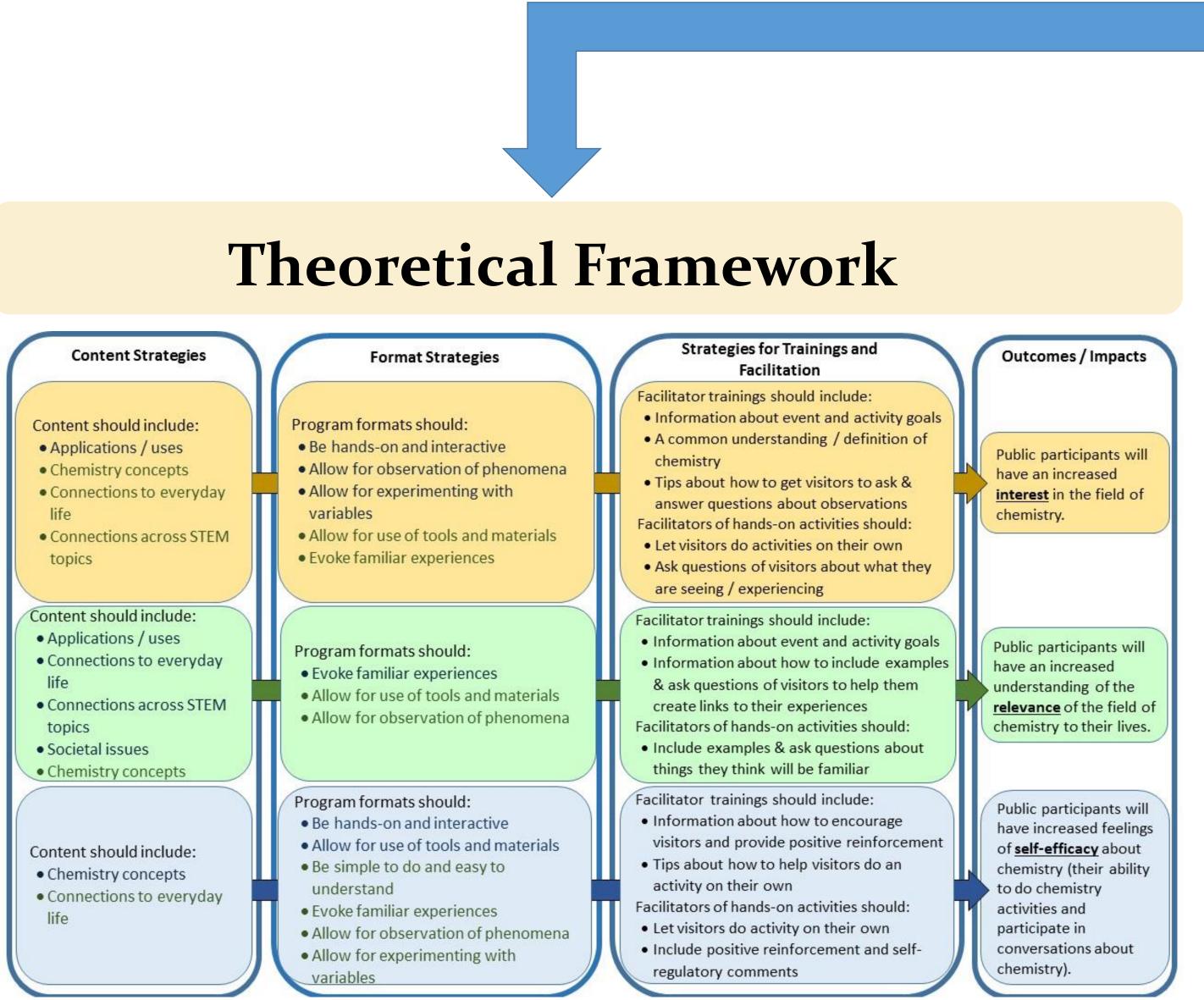


How can we promote use of project findings and products beyond the life of the grant?

The *Explore Science: Let's Do Chemistry* project is a design-based research study creating both chemistry hands-on activities and a theoretical framework about strategies that promote increases in public interest, understandings of relevance, and feelings of self-efficacy about chemistry.



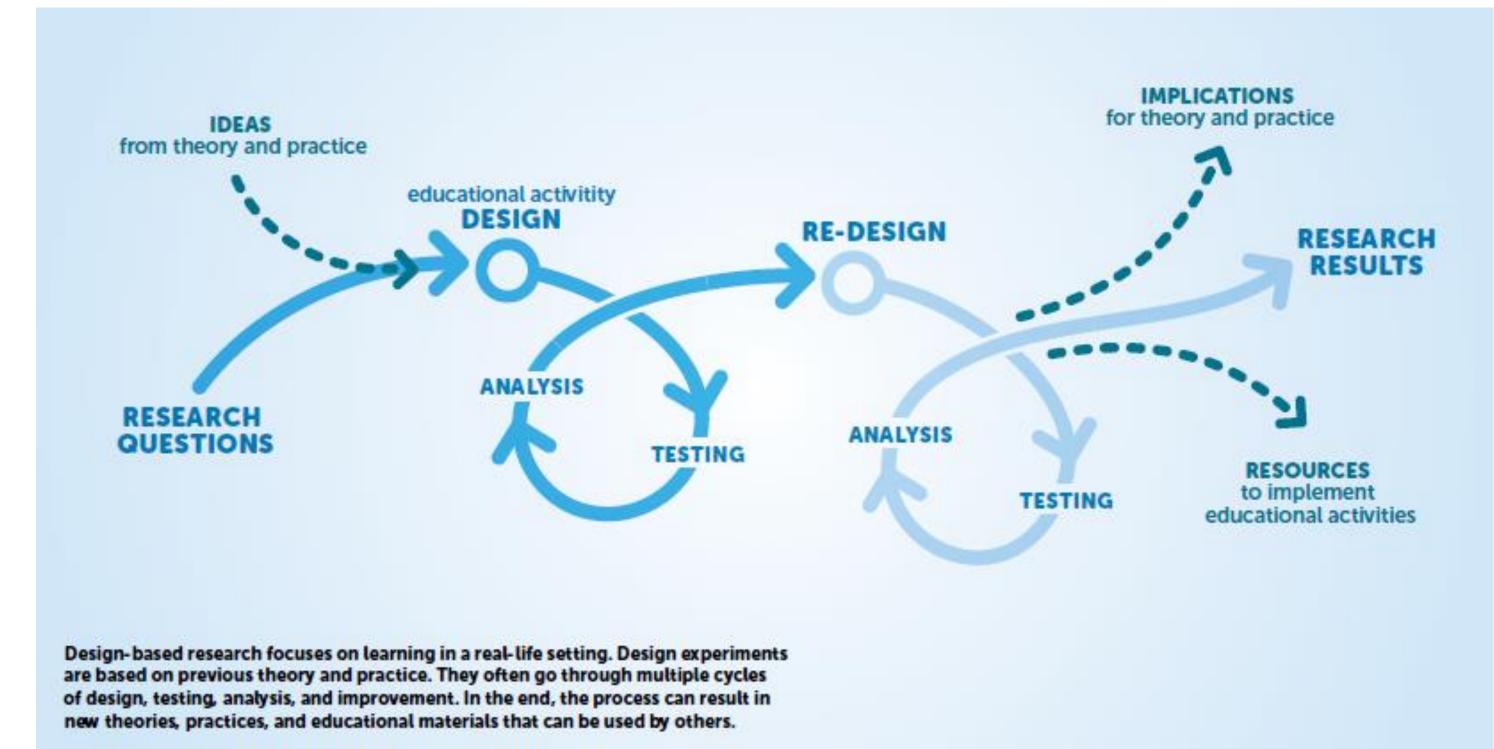


Blue = strategies from starting framework

Green = emerging strategies

The theoretical framework was based upon prior work from the Nanoscale Informal Science Education Network and refined during the project based upon results of visitor interviews.

Design-Based Research Process



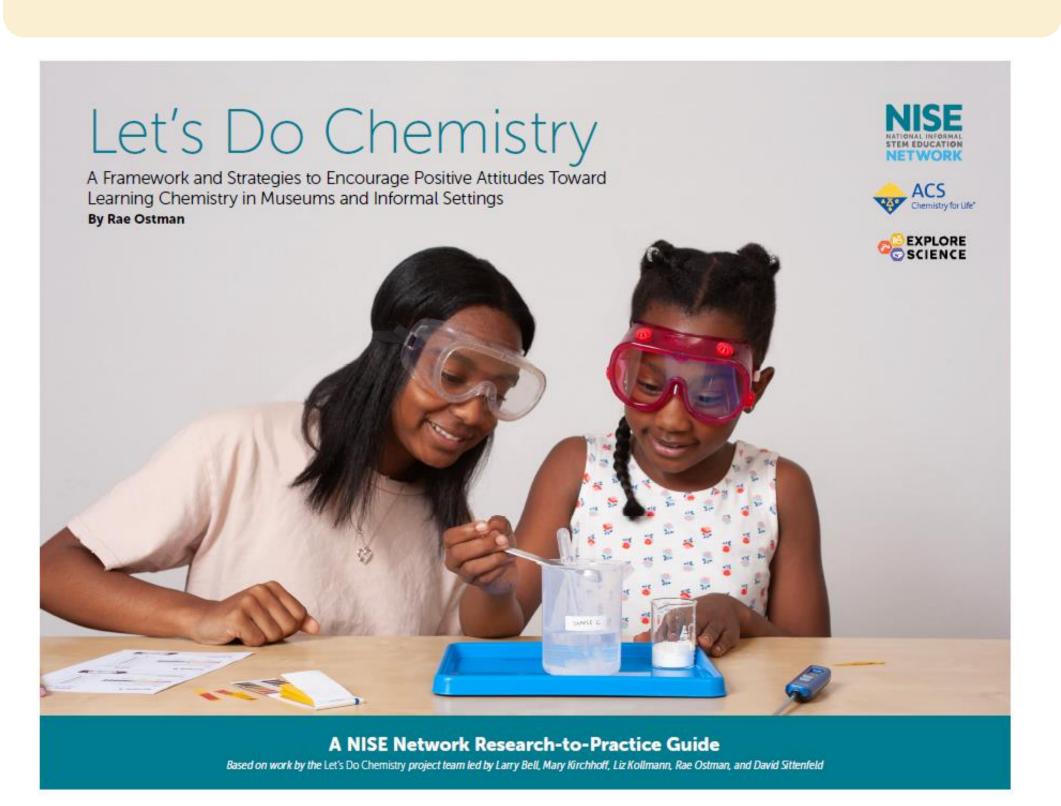
Hands-on Chemistry Activities



15 activities were tested and refined to optimize their ability to increase visitor interest, relevance, and self-efficacy. 12 activities were selected for the final toolkit.

Project Dissemination

Research to Practice Guide



Professional Development Workshops



Guides and professional development workshops are being developed to help educators and outreach professionals consider how they might apply our research findings to their own public outreach activities.

Activity Toolkits





250 toolkits containing hands-on activities, posters, and other materials were distributed to museums and ACS chapters for use during 2018 National Chemistry Week events.



Arizona State University



ChemAttitudes: Using design-based research to develop and disseminate strategies and materials to support chemistry interest, relevance, and self-efficacy 8/30/2016 - 9/30/2019

Pls: Larry Bell,¹ Elizabeth Kunz Kollmann,¹ David Sittenfeld,¹ Mary Kirkoff,² Rae Ostman³ Museum of Science, Boston, ²American Chemical Society, ³Arizona State University



This material is based on work supported by the National Science Foundation under award number 1612482. Any opinions, findings, and conclusions or recommendations expressed in this presentation are those of the authors and do not necessarily reflect the views of the Foundation.