

Training Title: STEM: Science on a Shoestring

Training Blurb: Whenever we explore science phenomenon with kids, it is helpful to look for concepts or "big ideas" that span across the disciplines of physical, life and earth science. In this way, kids begin to see the way science fits together and how investigations can be linked together. Afterschool staff will be exposed to the seven "cross cutting concepts" identified in the Next Generation Science Standards adopted by Vermont Agency of Education in 2013. Each concept will be illustrated through participation in a simple, low-cost investigation appropriate for afterschool settings.

Goals:

- 1. To understand the benefits of learning the seven "big ideas" (cross-cutting concepts) that link the major science disciplines together while exploring the actual practices of a scientist.
- 2. To deconstruct a science and recognize its value by extracting three key ingredients learning value, engagement potential, and "cost" benefit ratio in time, staff expertise and money.

Training Audience: Direct Service Staff	Core Competency:
	Child and Youth Development
Trainer Category:	X Curriculum and Learning Environment
X Core Trainer	☐ Families and Communities
☐ Professional Trainer	☐ Healthy and Safe Environment
☐ Partnership Trainer	☐ Program Organization and
	Professionalism
Content Applicable for Child Grade Range:	
K - 6	Training Duration: 2 hours
Content Level: Basic	Participant Capacity: 8 Min / 25 Max
Instructional Methods:	
☐ Pre-Reading	☐ Video/Audio
☐ Pre-Assessment	☐ Role Playing/Modeling
X Lecture	X Team/Partner Exercises
☐ Guest Speaker/Team Teaching	X Take-Away Samples/Lesson Plans/Forms
X PowerPoint	☐ Goal-Setting/Action Steps for Future
X Large Group Discussion	X Bibliography/Websites/Handouts
X Investigations/Practice	☐ Other
X Active Movement	
☐ Creating a Product/Sample	