STEM Resources for Iowa's OST Network
November 19, 2015

Iowa's SySTEM Building Website: https://iowanoycestem.wikispaces.com/ features numerous resources and best practices learned from the initiative. The Newsletter page contains archived versions of our newsletter and a link to sign-up to receive the quarterly publication: https://iowanoycestem.wikispaces.com/SySTEM+Newsletters. It is the best way to stay updated with current resources and opportunities.

Program in Education, Afterschool and Resiliency link to download the Activity Planning Tool (planning guide for quality STEM activities in out-of-school time): http://www.pearweb.org/tools/dos

Click2Science – is an interactive, professional development site for trainers, coaches, site directors and frontline staff/volunteers working in out-of-school time STEM programs, serving children and youth. http://www.click2sciencepd.org/

Resources from recent Click2Science webinars for Iowa:
It can be challenging to connect to STEM professionals in your community, so here are some great websites that can help you build on your students' interests to find STEM activities and connect them to real people who work in these fields.
http://pbskids.org/scigirls/
http://www.engineergirl.org/
http://engineeryourlife.org/
http://www.discovere.org/discover-engineering
http://www.sciencebuddies.org/
http://scienceofeverydaylife.com/

Click2Science PD Video on STEM Identity: http://click2sciencepd.org/learning-modules/i-can-do-stem
Project Exploration helps youth develop a STEM identity: http://www.projectexploration.org/
TechBridge focuses on supporting girls in STEM: http://www.techbridgegirls.org/
Why focus on identity in elementary and middle school: http://eric.ed.gov/?id=EJ783419
Future aspirations by gender and race: http://eric.ed.gov/?q=author:ramos-wada&id=EJ921614
Engaging students in STEM practices: http://nstahosted.org/pdfs/ngss/resources/201203_framework-krajcikandmerritt.pdf

National expert and STEM Technical Assistance Consultant, Maryann Stimmer, completed several webinars on STEM identity, those can be found on our homepage: https://iowanoycestem.wikispaces.com/home (scroll down to National Webinars - STEM Identity). There, you can find the *STEM Programs Identity Checklist*.

She also completed an in-person, day-long, professional development session on STEM in Iowa at the Impact After School Conference (IAA's annual conference) in April of 2015. You can download those resources on our homepage. The Professional Development page of the wiki website has additional resources.

Maryann Stimmer and Ashima Shah (Program in Education, Afterschool and Resiliency) completed a webinar on **Quality STEM** and the recording can be found here: http://bit.ly/1nG1Nnn

Additional resources related to Equity from the National Afterschool Alliance:
Digging into Research: Gender Equity in STEM
Equity in Tinkering and Making
Digging into Research: Interest and Identity in STEM

Science Afterschool Consumers' Guide: http://www.sedl.org/cgi-bin/mysql/afterschool/science.cgi?location=about Lists curricula for science in afterschool; each one is vetted by an afterschool person and a STEM person. It is not a list of recommended curricula; you have to read the reviews to read what people say. But it will let you sort by age, by type of science, by the name of the curriculum, and will help you to find a curriculum that is good for your site.

Center for Advancement of Informal Science Education http://informalscience.org/

The Connectory http://theconnectory.org/ national portal for all things STEM.

You4Youth (https://y4y.ed.gov/) is an online professional development and technical assistance website for 21st Century Community Learning Centers (OST) programs, but their resources are relevant to all OST professionals. STEM-specific resources can be found here: https://y4y.ed.gov/learn/stem/ including an Introduction to STEM, Implementation Strategies, Coaching and other tools.