School Age Curricular Framework Easy Sheet
STEM – Science, Technology, Engineering and Math Level 1

Marshfield Clinic Health System

WISCONSIN AFTERSCHOOL NETWORK

Science, Technology, Engineering and Mathematics includes providing 21st century skills that prepare children and youth for a global society. It should be hands-on and increase analytical and critical thinking skills.

Rationale	★ Opportunities for Collaboration and teamwork ★ Ability to express creativity and imagination ★ Demonstrate critical thinking and problem solving skills ★ Understand how the world works ★ Plan implement, interpret results of experiments ★ Hypothesis and record observations

Examples	**Materials**
	★ Take-a-parts: old computers, clocks, phones…
	★ Loose parts/natural materials
	★ STEM kits
	★ Makerspace: cardboard, recyclables and other materials to build or construct models or machines
	
	Activities
	★ Simple experiments
	★ Building with various materials-toothpicks and marshmallows, playdoh, blocks….
	★ Geocaching
	
	Interactions
	★ Set up partnerships with STEM content experts (For Example Mad Science)
	★ conduct simple experiments
	   ○ Ask what the students think the outcome will be
	   ○ Create/ write hypothesis with kids
	
	★ Notes for Next Time: (time used, reactions to activity, staff/children interactions)

Resources	★ [UConn STEM resources for Teachers](#) ★ [PBS Learning Media for Teachers](#) ★ [STEM resources by NASA](#)

	★ [National inventors Hall of Fame STEM resources for educators](#) ★ Afterschool Alliance http://www.afterschoolalliance.org/STEM-curriculum.cfm ★ You for Youth (math, literacy, science, arts, technology, homework) 　　https://y4y.ed.gov/en/toolkits/afterschool/math