

School Age Curricular Framework Easy Sheet
STEM - Science, Technology, Engineering and Math Level 2



<p>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.</p>	
Rationale	<ul style="list-style-type: none"> ★ 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	<p>Materials</p> <ul style="list-style-type: none"> ★ UConn STEM resources for Teachers ★ PBS Learning Media for Teachers ★ STEM resources by NASA ★ National inventors Hall of Fame STEM resources for educators <hr/> <p>Activities</p> <ul style="list-style-type: none"> ★ Build bridges out of different materials and test the strength ★ Speed stacking ★ Testing buoyancy of toys and objects in a water tub ★ Paper airplane flying and creation ★ Jenga and other balancing/ building games <hr/> <p>Interactions</p> <ul style="list-style-type: none"> ★ Set up partnerships with STEM content experts (For Example Mad Science) ★ conduct simple experiments <ul style="list-style-type: none"> ○ Ask what the students think the outcome will be ○ Create/ write hypothesis with kids <hr/> <p>★ Notes for Next Time: (time used, reactions to activity, staff/children interactions)</p>
Resources	<ul style="list-style-type: none"> ★ UConn STEM resources for Teachers ★ PBS Learning Media for Teachers



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| | <ul style="list-style-type: none">★ 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 |
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