

Activity Title:	Pipe Cleaner Tower Challenge
Timeframe:	~40 Minutes
Big Ideas and/or Essential Questions:	<ul style="list-style-type: none"> • How can I use a positive growth mindset when I collaborate with my peers?
PA Standards:	Next Generation Science Standards Practices <ol style="list-style-type: none"> 1. Asking questions and defining problems 2. Developing and using models 3. Planning and carrying out investigations 4. Designing solutions for engineering
Learning Target(s):	<ul style="list-style-type: none"> - I can build a pipe cleaner tower that supports a ping pong ball using a Growth Mindset. - I can model 4Cs behaviors with my peers.
Materials:	Book- <i>The Most Magnificent Thing</i> YET Letters Growth Mindset/Fixed Mindset Poster Pipe Cleaners (20 per group of 3) Ping Pong Ball (one per group of 3)
Activity Procedures:	<ol style="list-style-type: none"> 1. Show the cover of the book <i>The Most Magnificent Thing</i>. Review the Growth Mindset/Fixed Mindset Poster. 2. Explain to the students that today they are going to work as a team to build a tower that can support a ping pong ball. Review key vocabulary collaboration, communication, critical thinking, and creativity. Review F.A.I.L.-First Attempt In Learning 3. Introduce the materials and explain the ping pong tower challenge. 4. In teams students will build a tower that can hold/support a ping pong ball.

Assessments:	Reflection: What went well or didn't go well within your groups today? Where did you notice yourself or someone in your group using a Growth Mindset/Power of Yet?
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