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Activity Title:	Kindergarten Engineering/Mighty Mighty Construction Site
Timeframe:	~ 2 day 40 Minutes per day
Big Ideas and/or Essential Questions:	How can I build a structure with a team of engineers?
	Key Vocabulary -engineering, plans, construction, building, teamwork/collaboration
PA Standards:	Next Generation Science Standards Planning and carrying out investigations Constructing explanations and designing solutions
Learning Target(s):	 I can work on a team to build a structure with four walls, one door, and some type of roof.
Materials:	A large E to represent the word Engineering
	Mighty, Mighty Construction Site book by Sherri Duskey Rinker
	A bag containing artifacts that represent engineering such as plans, hard hat, picture of a construction site, truck, civil engineer photo.
	Blocks for building (various different types legos, building blocks,)
	Simplified Engineering and Design Process posters
	(Explore, Create, Improve)
	http://blog.eie.org/creating-an-engineering-design-process-fo r-the-preschool-classroom
Activity Procedures:	 Day 1 Read/Think aloud the book <u>Mighty Construction Site.</u> Introduce the letter E-Explain that letter starts with an E. Today we will be learning about being an engineer. Pull out the bag with engineering artifacts. Invite one student at a time to pull out an object from the bag and

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	discuss (Construction hat, plans, construction trucks, tools) 4. Pass the objects around to all the children.
	Share the Construction ABC Song
	https://www.youtube.com/watch?v=Zrrt0fxn7AE
	https://www.gootobe.com/wdtch:v=zhtotxh/AL
	Day 2
	1. Share the Engineering and Design Simplified
	Version-Explore, Create, Improve eie poster.
	http://blog.eie.org/creating-an-engineering-design-process-fo r-the-preschool-classroom
	2 Review Key Vocabulary
	3. Task/Challenge -Today you will be pretending that you are an engineer at a construction site. You will be working with a team to create a brand new building at your construction site. Your building must have four walls, a door, and some type of roof to provide shelter.
	4. Share the building materials with the students.
	Other ideas for Kindergarten Engineering-Try the same engineering and design challenge but give the groups different building materials. Also change the construction site to either a dog kennel or a zoo. The dog kennel should have some type of roof, a fence, and the dog should be standing upright.
Assessments:	Reflection Questions-How did you team work together? Did your structure have four walls, a door, and a roof?