



Make: Build the Arch

CHALLENGE: Can you construct a scale model of the St. Louis Gateway Arch out of simple materials you have in or around your home?

BIG IDEA: The St. Louis Gateway Arch is one of the most well known monuments in the world. A monument is a statue, building, or other structure built to commemorate a famous or notable person, place, or event. The Arch monument has many incredible features. From its incredible stainless steel legs, to its cool observation deck at the top. For this challenge, it is important for you to know that the arch is as tall as it is wide. Yes, the Arch is 630' tall and the two legs are 630' apart at the base.

Materials:

Any material you may find in or around your home (examples: paper towel rolls, paper clips, straws, twigs, paper, plastic bottle tops, corks, pipe cleaners, craft sticks)

Tape

Instructions:

1. Construct a free standing model of the St. Louis Gateway Arch. (please do not tape down to a surface, or lean against other objects, doors, or walls)
2. Use household materials and tape to create a model of the Arch. Your Arch should be as wide as it is tall (just like the Gateway Arch!)

Challenge: Please do not wrap the structure in tape. We should be able to see the materials you chose to make your arch.

3. Try to make your Arch at least the height of the middle of your shin. We want to be able to see your incredible work of art!



Want to know more?:

www.gatewayarch.com - Find out more about the Gateway Arch

www.tinyurl.com/STLarches - Learn more about other famous arches around the world

www.tinyurl.com/STLhoc - Follow along with video tutorials for some Arch coding fun

How to share:

Take a picture standing next to your finished model so that we may see the size of your structure. Or a picture of your model next to a common object like a stove, TV, or refrigerator.



WE WANT TO SEE & SHARE YOUR CREATIONS!

Send us a picture or video by June 15, 2020 and be entered into a drawing for a gift card! Three ways to share:

1. Tweet us using the hashtag #aBitofSTEM
2. Text us at 314-285-9663
3. Use this google form and we'll show off your creation. [Submit Here](http://tinyurl.com/STLsubmit) (tinyurl.com/STLsubmit)

For more challenges visit: STEMchallenges.wustl.edu