

SUPPLIES

- ▶ **Craft sticks**
- ▶ **Modeling clay**
- ▶ **Chenille stems**
- ▶ **Markers**
- ▶ **Blue design cards**
- ▶ **Pencil**

OPTIONAL

- ▶ Glue to make connections permanent
- ▶ Rubber bands to attach craft sticks
- ▶ Craft materials



INSTRUCTIONS

1. Watch the video at www.cmosc.org/creative-construction/ for unboxing and other tips.
2. Using the pencil and blue cards, sketch ideas to plan your design. Can you think of something useful to build? The ideas are endless!
3. Use the modeling clay to attach the craft sticks together at the ends to make angles or along the edges for straighter attachments. You do not need very much modeling clay, but you may have to play with it to make it more pliable. You also may have to add more as you add new connections.

OTHER IDEAS AND INQUIRIES

- Building with craft sticks is a fun way to learn about physics, structure, and design. It is also a great chance to get creative and use your imagination.
- Describe your structure to someone: a friend, a family member, or your teacher. Write about it.
- How can you use the chenille stems in constructing things?
- Can you think of anything else that can be used to attach the sticks together?

VOCABULARY

Construction: The process, art, or manner of building something

Structure: A thing made up of a number of parts joined together in a certain way

Angle: When two (2) lines meet at a shared point; they are measured in degrees

Design: A plan or drawing of an idea that shows how something might look or function

Force: A push or pull on an object that makes it move

Gravity: A force that attracts a body to the center of Earth



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