



STEM Skill Booster:

Build a Castle

Supplies

- Cardboard Tubes
- Craft Sticks
- Paper
- Paper Plates
- Straws
- Tape (not provided in kit)
- Anything else you find in your craft drawers or recycling bin

Instructions

1. To begin, plan your design. What can you use as a strong, stable base? Will your castle have a tower? Where is the door located? Is your castle shaped like a square or rectangle? Draw out your design plan.
2. Begin construction to test out your design plan. Will your pieces and parts fit together as you planned? If not, try again. Make adjustments or try adding new pieces.
3. Finalize your castle. Once you are satisfied with the build, use tape or glue to secure your pieces together.
4. Decorate. Once your castle is built, decorate it! Add stickers, color with markers, or draw windows to create even more details to your castle.

Additional Challenges

- Can you design a castle using all the supplies?
- Can you add a drawbridge to your castle?
- Can you make it taller or wider?

STEM Concepts

- **Design** – plan produced to show an object before it is built
- **Design Process** – a series of steps that are used to solve a problem or create new things
- **Construct** – to build or create
- **Engineer** – a person who design and builds machines, systems or structures