# Tower Power Challenge 

Design, plan, and build a 12-inch paper tower that can support a can of food for 15 seconds.

## Materials

CardboardToilet paper rollsTape and/or glueScissorsRulersSome type of string (optional)1 can of food
## Design

- Draw a sketch of your tower.
- Does it have support strings, a base or will it be free standing?
- Will your tower be painted or decorated?


## Plan

- Determine what materials you'll use to build your tower.
- Find the location where you will test its strength.
- Gather your build materials. Make sure you have enough to build a 12 -inch tower.


## Build

- Using any combination of cardboard, toilet paper rolls, tape, glue, scissors, and string, build a tower that is at least 12 inches tall. Use the ruler to measure it.
- When you are done building your tower, examine it.
- Does it seem strong enough to support the weight of a can of food?
- What can you do to make it feel even more sturdy?
- Place your tower in its test location.


## Test

- Place the can of food on the top of your tower and start counting!


## Did you make it to $\mathbf{1 5}$ seconds?

If your tower did not support the weight of the can for 15 seconds, try modifying the design. A few factors to consider when modifying your tower: tower height, thickness of the tower material and walls, surface conditions of the testing location.

