



# Newspaper Building STEM Challenge!

## Gather

- Newspaper
- Tape

## Let's Experiment!

1. Take one sheet of newspaper and roll it into a column shape from corner to corner and tape the middle flap so the column stays wrapped. Keep rolling until you have as many rolls as you need!
2. Decide what type of structure you'd like to build, and start building! Use tape to connect the rolls of newspaper. Don't be afraid to reevaluate and change your design as necessary!

## How Does it Work?

Newspaper is a great recyclable material to explore because it can be molded into different shapes. A cylinder is a 3 dimensional shape that is made when two parallel circles are connected - the two circular ends of the rolled newspaper are these two circles. Cylinders are very strong because they disperse stress or weight throughout the entire shape. When newspaper is rolled into a cylinder, it becomes stronger than when it is not rolled.

## Take it Further!

Try these extra challenges:

- Build a structure that is 3 feet high with at least 1 other person - **WITHOUT TALKING!**
- Build a structure that will hold a heavy book for at least 10 seconds - or compete with someone else to see how many books your structure can hold.
- Build a structure without any tape as a connector.

For more information and activities, visit:

[https://www.teachengineering.org/activities/view/cub\\_intro\\_lesson01\\_activity1](https://www.teachengineering.org/activities/view/cub_intro_lesson01_activity1)