

Paper Tower Challenge

This is a quick and simple engineering challenge that will test your ability to think creatively and logically.

Materials:

- Paper
- Tape
- Scissors (Optional)
- Ruler (Optional)
- Pencil (Optional)



Objective:

Create the tallest tower you can using only paper and tape.

Constraints/Limits:

- Start off small and use only one (1) sheet of paper and one to two (1-2) feet of tape.
- The structure must be able to stand alone for at least 5 seconds.
- The structure cannot be taped down to a surface nor have any additional material supporting it up.
- Set a time limit for only 20 - 30 minutes.

To Think About:

First, plan out what you need your structure to have. It doesn't matter how tall the structure is if it can't support its own weight. Think of some famous towers and structures and try to replicate their design.

Alternatives:

After you've completed the first challenge, try an alternative challenger or a variation of the challenge. Add more paper and more tape (if necessary).

For a harder challenge, try making the strongest structure you can by seeing how many books can fit onto it without it collapsing.

Cleanup:

Make sure to dispose of your used paper properly. Either put what you can in the recycling bin, or save the paper for another use later like scratch notepaper, or packaging material.