



# Minds in Motion

## Newspaper Chair Challenge

### Activity Rundown:

This project will challenge you to see if you can build a chair that will hold you! The catch is the chair must be built out of solely newspaper. Using the engineering design process you will construct a chair that will not only be able to hold yourself up but everyone else in the house as well!

### You will need:

- + Newspaper
- + Magazines
- + Blank paper
- + Pencil
- + Scissors
- + Glue

★ Can also try and make a chair out of stacking plastic cups and cardboard layers

### Let's do it!

- 1) This is a fun challenge that everyone in your house can participate in!
- 2) The challenge is simple: build a chair out of only a newspaper that will be able to hold yourself up for 5 seconds.
- 3) If newspaper is unavailable you can also use magazines or printer paper. Whatever you have and you can be as creative as possible!
- 4) There are some objectives that you must meet when building your chair and they are as follows:
  - Your chair must hold you at least 2 inches off of the ground
  - You must be held up for at least 5 seconds
- 5) The final catch is that each member that is participating in this chair challenge will have only 30 Minutes to complete it. You may also use as much newspaper as you are able to find!



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The engineering process can be followed here:

- 1. Identify the problem**
  - a. How are you going to build a chair that can hold you up using only newspaper?
- 2. Generate Ideas - Brainstorm**
  - a. Which shapes are the strongest?
  - b. What obstacles will you run into?
  - c. What chairs have you seen before that might work well in this challenge?
  - d. How can you make your idea exciting and innovative?
- 3. Design**
  - a. Brainstorm with those in your household or area and decide on what you think is the best idea for this.
  - b. Draw out your design on paper
  - c. Plan out the budget needed for this, what does each material cost, and how much will you need?
  - d. Confirm drawn out design with a friend, teacher, supervisor, parent/guardian.
- 4. Build and Test**
  - a. Create design and test it to see if it solves the problem
- 5. (Optional) Redesign**
  - a. Find the problem with the design and try another design to get around it
  - b. This is kind of like going back to step 1
- 6. Final Demonstration**
  - a. Show your design once it works by tagging us on social media!





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## Reach out!

We would love to hear from you about all the amazing STEM projects you are doing at home! Show us your finished products on any of the following social media platforms by tagging us or by using the following hashtags. We hope these projects have brought some excitement to your day during these difficult times.

Let us know how we did! Please [click here](#) to fill out a short survey on how well we did and what you would like to see more of in the future. Thank you!

Twitter: **@MyMindsInMotion**

Facebook: **@mindsinmotion2014 & @ucactiveliving**

Instagram: **@ucalgaryactive**

Please use the following hashtags!

**#ucalgarycamps #ucalgarytogether**