

The Great *STOOL* Challenge

You will work in small groups to design a stool using only newspaper and masking tape. Don't forget to apply all the knowledge you have gained about the foundation of shapes!

Your stool creation must hold an adult up for at least 15 seconds. The adult is not allowed to touch the floor during those 15 seconds.

On your own, you must first think like an architect to create a blueprint. The blueprint must be labeled with the shapes and materials used in your design.

My Stool Design

Then you will get together with your group to discuss all of your designs. Your group will select the design that will be used to make the stool. You will have 1 hour and a limited amount of newspaper and tape. If you require more supplies (like tape), you will have to trade some of your newspaper with the teacher...Like a true construction project, funds are LIMITED!

Good luck! Use your time and supplies wisely!

The *DESIGN* Process

ASK:

What are some problems you might encounter with this challenge?
What are your constraints?

IMAGINE:

What are some possible solutions? Brainstorm a list of ideas and chose the best one.

PLAN:

Draw a diagram on a separate sheet of paper and make a list of the steps you will take.

CREATE:

Follow your plan to build your stool. Test and revise as needed.

IMPROVE:

What worked and what didn't work? How did you have to modify your design to make it better?
