

USE YOUR BRAIN ENGINEERING CHALLENGE



Mountain Rescue

HELP! SOMEONE IS HURT ON THE MOUNTAIN! AND THE LIFT IS BROKEN! CAN YOU DESIGN A DEVICE TO GET THEM DOWN?

What You'll Need

- Some kind of string. Yarn can work as can fishing line, sewing thread, or dental floss.
- Something above the floor to tie the string to.
- A "patient" to "rescue". A small doll, Lego figure, or action figure is perfect. The bigger it is, the harder the challenge will be.
- Some tape and scissors.
- Building materials. This can be anything you have lying around your house that your parents let you use.

The Challenge

After you attach your string to a high object, pull your string to make a slope and attach the other end to a low object like the leg of a chair or tape it to the floor. You want the angle of the string to be steep enough so that something can slide down it, but not so steep it freefalls.

Your mission is to build a device from whatever random stuff you have in your house to carry your patient down to the floor unharmed. It is up to you to figure out what and how to do it, but your device must be able to hold the patient inside without dropping them and must be able to attach to and slide down the string. Clips work well for this purpose.

I have no idea what you have in your house, so this could be very easy or very hard. If you succeed quickly, you can add new rules to make it harder:

- Make the incline steeper.
- Use a bigger patient.
- You can't use tape
- You can't use anything made of paper.
- You can't use anything that is intended to be a container.
- You can't use whatever worked last time.
- You have also hold 25 pennies as well. Or more!



Did you come up with an amazing solution? Take a picture and share it with us!