



**day 29**

If it's too far to reach, a robot hand we will build!

Welcome to the twenty ninth challenge of our #creativeindoorchallenge !!! We're so close to completing our challenge!!! And today, we will give mum and dad a hand, so let's build one!!!

Please print the five following pages for as many people as you wish to participate at home.

Today you will need a long piece of cardboard from a box, cutting knife, ruler, pencil, glue, string or yarn, straws, scissors, paint and materials to decorate, paper, and colours or markers.

The first part of our challenge is to make a cool robotic hand! It will help us reach places that are far and high, and also makes a super object to play with!

Our colouring activity is about dancing our friends reaching for the treasure map in the bottle up in a cave!

Have fun with this activity of our #creativeindoorchallenge, it is super cool to make and play with!!!

If you are enjoying our Challenge, please share your activities on Instagram, and use #creativeindoorchallenge within your post's caption, so we can participate for our final prize! We are missing out on a lot of posts that don't have #creativeindoorchallenge in their descriptions. Will you help us find them? We would love to share your beautiful creations so you can participate for the prize! Remember to follow us on instagram @ourboxparties and tell your friends to follow us too! Have you seen your friends' challenges? Who's winning?

*Share this challenge with your friends, family, neighbours, and teachers!*

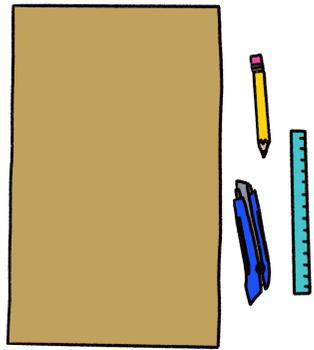
*We can be creative and fun while being indoors, and enjoy this beautiful time together!*

**Stay safe, remember to wash your hands, and enjoy being creative!!!**

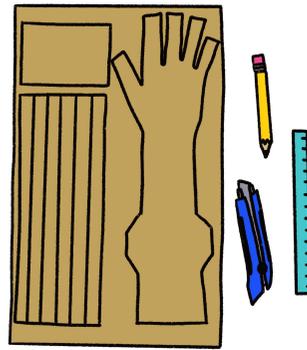


# day 29: If it's too far to reach, a robot hand we will build!

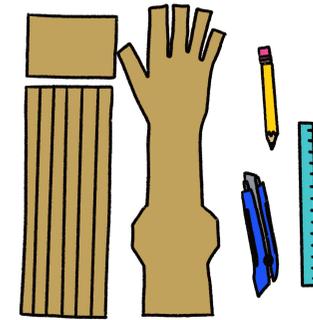
Today we will make a super cool robotic hand to reach all those far and tall places, and help mum and dad!



1. Grab a large piece of cardboard of about 20 x 40 cm. You can use mum's or dad's hand as a reference.



2. Trace their hand and make it a bit more angled and big. Draw a rectangle wider than the arm and 5 or 6 long strips.



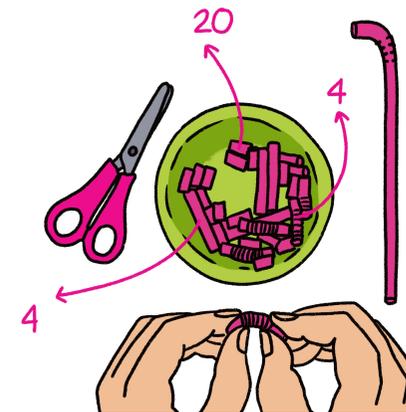
3. Cut out the drawings using a knife. Keep the rectangle and strips aside for a while. We will use the hand for now.



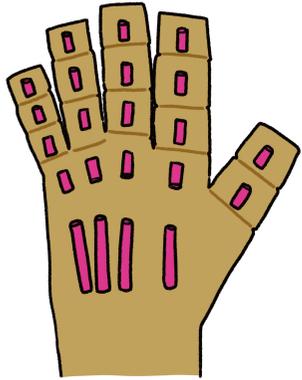
4. Fold the fingers where we have joints: 2 in the thumb and three in each of the other 4 fingers.



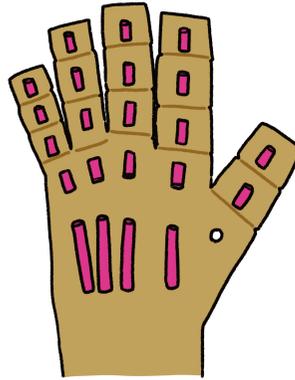
5. Cut the straws in short pieces (2cm), long pieces (8cm) and elbows (6cm, the part that bends in the straw).



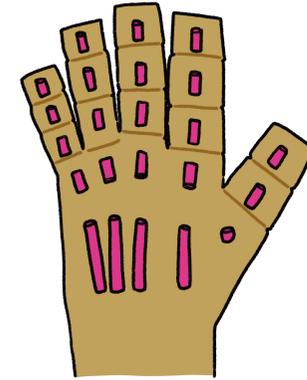
6. You need 20 small pieces, 4 elbows and 4 long pieces for 28 pieces of straw in total.



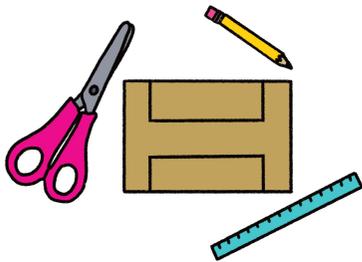
7. Glue the small pieces on the upper and medium parts of the fingers, and the long ones under the 4 fingers. 2 small ones and the elbows will remain.



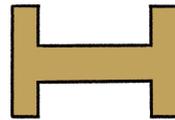
8. Punch a hole under the thumb, next to the long straws.



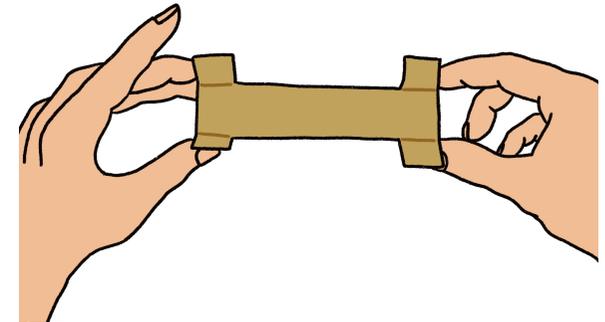
9. Insert an elbow in the hole, it should go from side to side. Glue it to hold it steady.



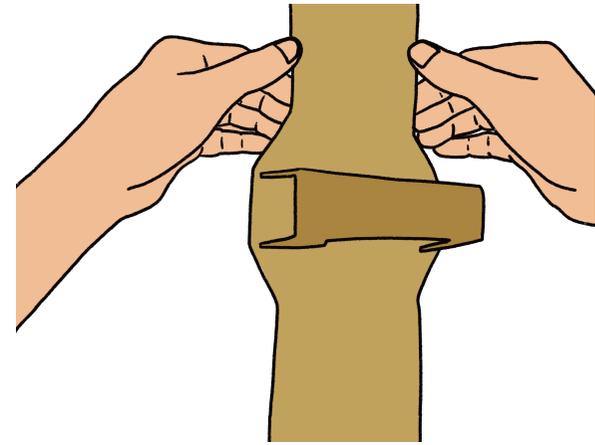
10. Remember the rectangle? Draw an H to build the support for your hand in the robotic hand.



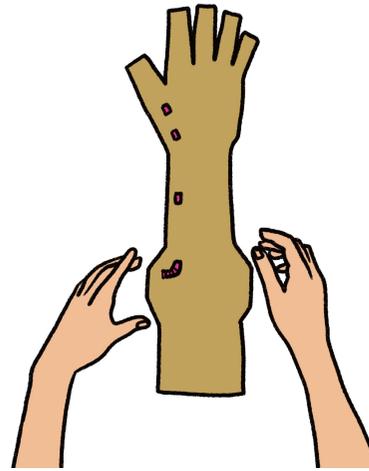
11. Cut it out carefully. You will need it to fit your hand inside.



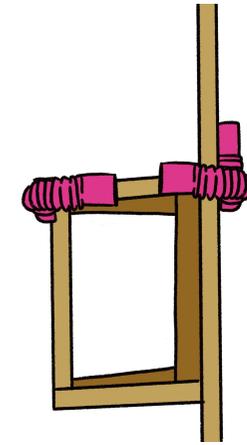
12. Fold the corners of the H, they will work like legs in a table. Then we need to glue the H to the wider part of our robotic hand.



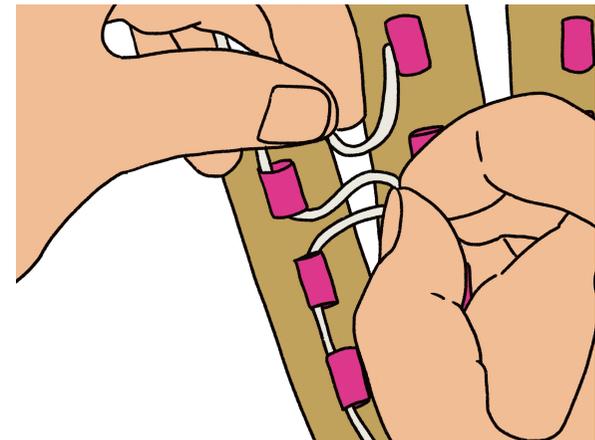
13. Glue the H to the hand, making sure it is steady and firm.



14. Add the 2 remaining small pieces under the elbow on the other side of the hand. Glue another elbow the next to the edge of the wider part under the thumb.



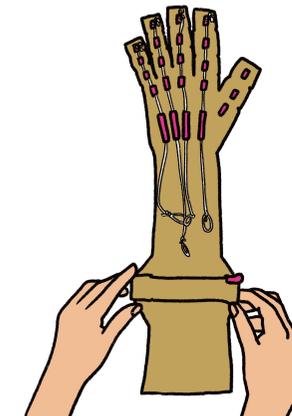
15. Connect that elbow to another elbow that bends to the other side. Glue it to the H. Put the remaining elbow in the opposite corner.



16. Put the yarn or string inside the straws, using one thread per finger. Tie a knot on top, and leave a bit at the bottom for a loop.



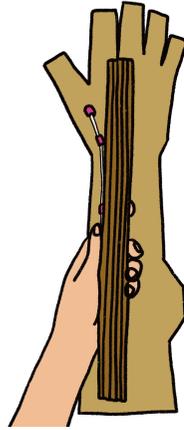
17. Try on the robot hand to adjust the loops that will go in each fingertip. You must be able to flex your finger and see the robotic hand pulling the same finger.



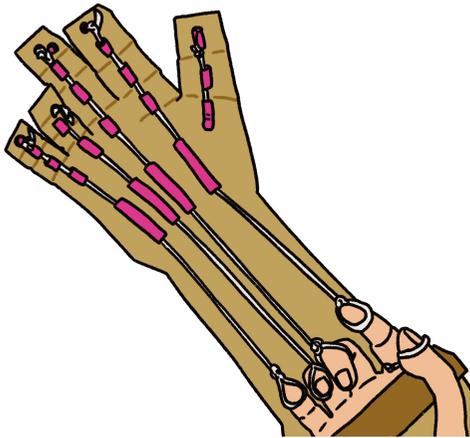
18. Create loops for all four fingers. Once ready, we will do the thumb.



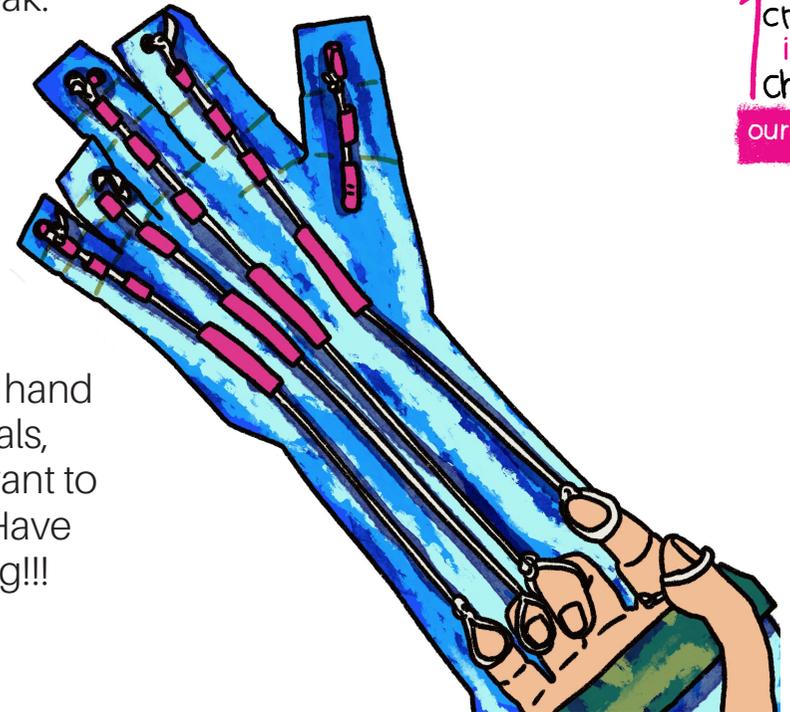
**19.** Pass the thread from the inside to the outside of the hand, using the elbows. Pass it through the bottom and make sure it goes through the connecting elbows on the H.



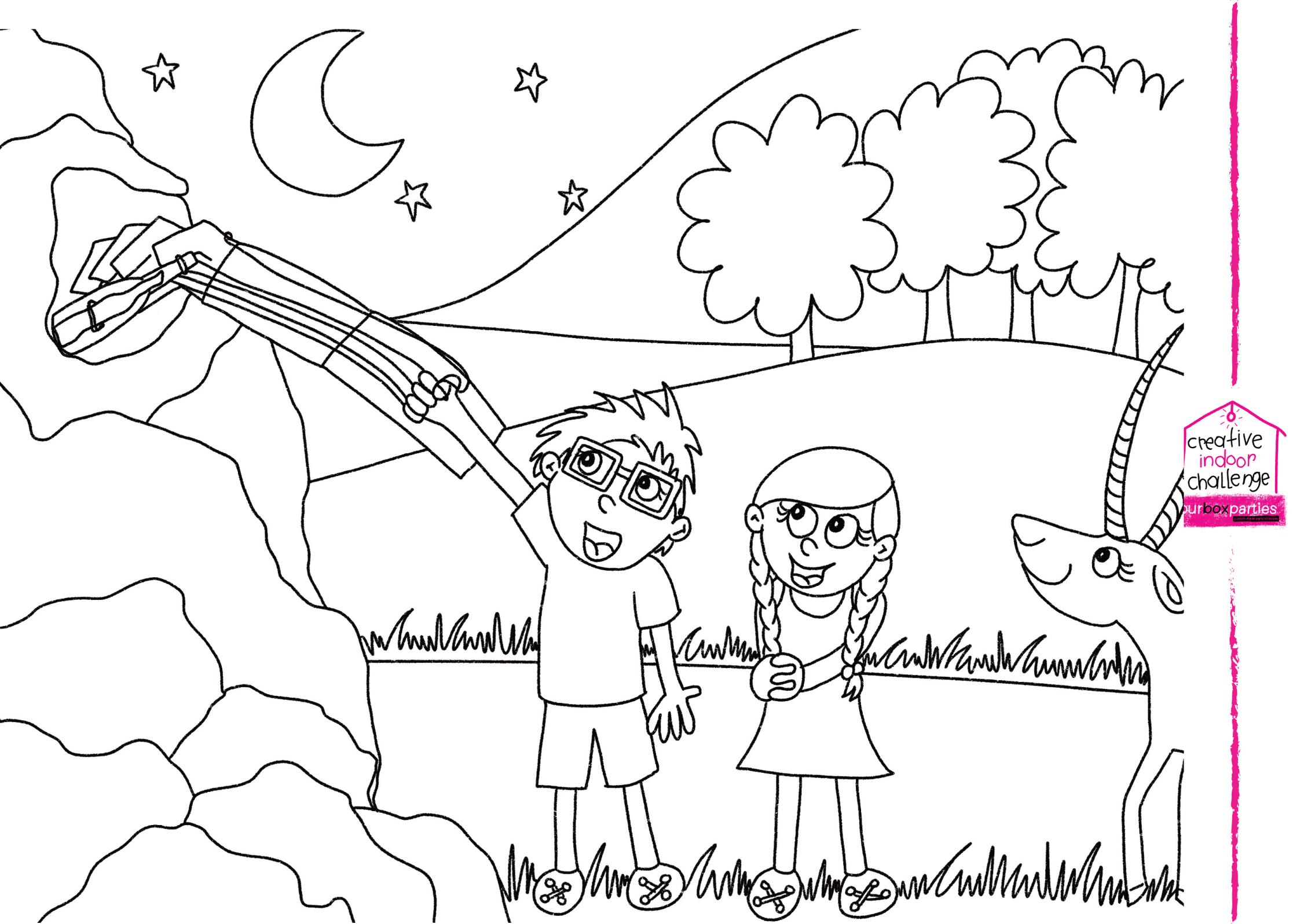
**20.** Take the long strips and glue them together to create a strong "bone) to glue on the outside of your hand. This way it won't break.



**21.** Place your hand inside the H and each finger in the loops. Now you can pull the fingers!



**22.** Decorate your robot hand with paint, fluffy materials, plastic, or anything you want to make it look ultra cool! Have fun reaching everything!!!



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