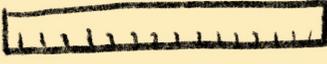
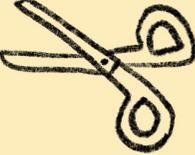


≡ MAKING AN ASTRONAUTS HELMET ≡

# EQUIPMENT

 PENCIL

RULER 

 TAPE 

ONE WILL BE OKAY

GLUE

(PVA OR HOT GLUE)

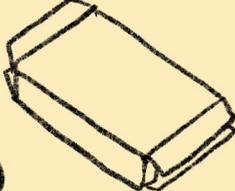
GLUE STICKS AREN'T GREAT FOR THIS

 HOLEPUNCH

 CLIPS OR PEGS  
(USEFUL FOR HOLDING SOME THINGS IN PLACE WHILE GLUE DRIES)

# MATERIALS

NEED →

CEREAL BOX 

CARDBOARD  
(CORRUGATED LIKE DELIVERY BOXES) 

BBQ SKEWER  
(OR PAPER ART STRAW) 

2 X SPLIT PINS (OR SOME THIN PAPER) 

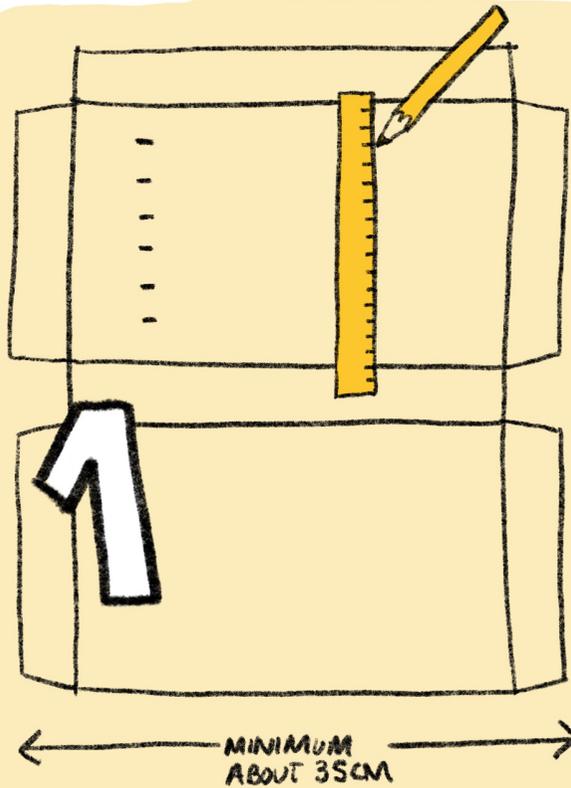
TOILET ROLL TUBE  
(OR A KITCHEN ROLL TUBE) 

PIPE CLEANERS 

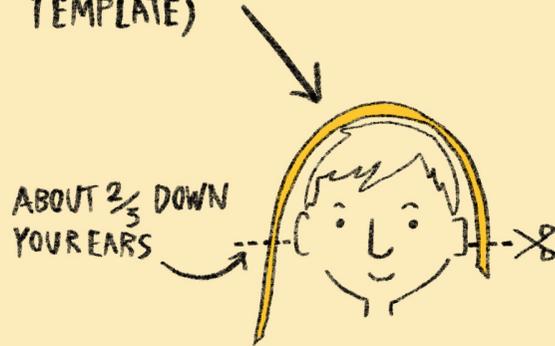
COLOURED CARD OR PAPER 

OTHER INTERESTING SHAPED RECYCLING  

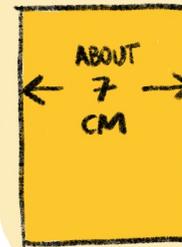
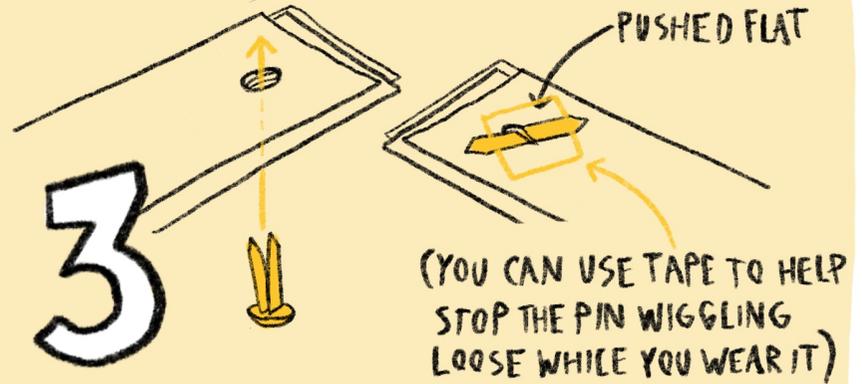

EXTRAS



- USE A RULER TO MEASURE 9 3CM WIDE STRIPS.
- CUT THEM OUT. SET 1 ASIDE.
- CUT 8 DOWN TO CORRECT LENGTH (MEASURE ONE ON YOUR OWN HEAD LIKE THIS AND USE AS A TEMPLATE)



- USE A SPLIT PIN ON EITHER END TO CONNECT STRIPS TOGETHER.

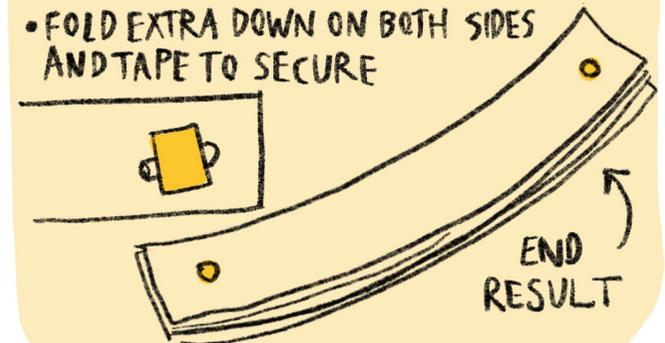


DON'T HAVE SPLIT PINS?

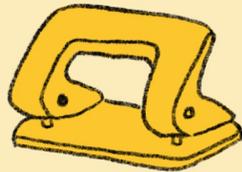
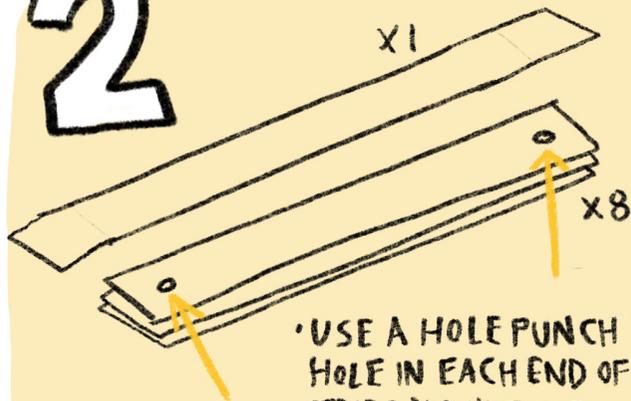
- GET A BIT OF SCRAP PAPER
- ROLL IT UP SO IT CAN BE THREADED THROUGH HOLES



- FOLD EXTRA DOWN ON BOTH SIDES AND TAPE TO SECURE

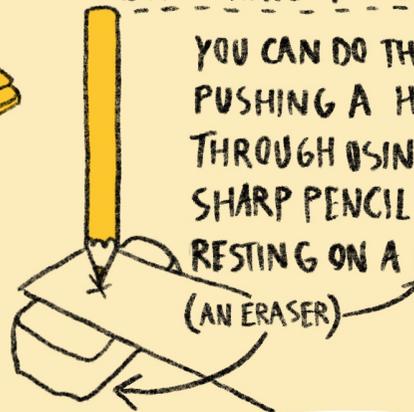


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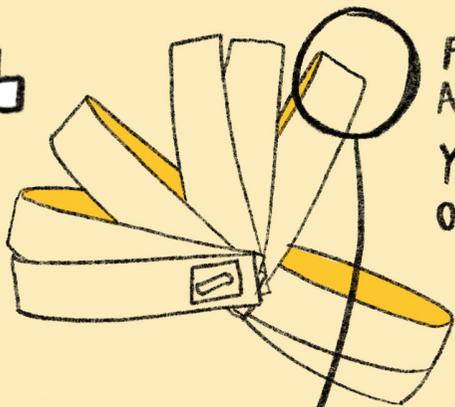


DON'T HAVE A HOLE PUNCH?

YOU CAN DO THIS BY PUSHING A HOLE THROUGH USING A SHARP PENCIL. RESTING ON A RUBBER (AN ERASER)



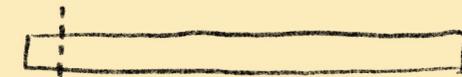
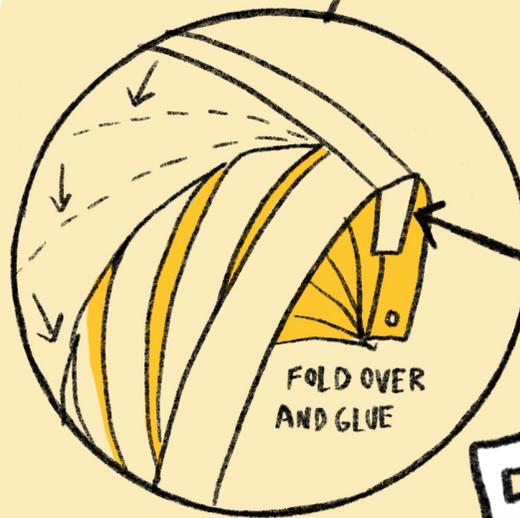
# 4



POSITION 6 OF THE STRIPS AROUND YOUR HEAD. YOU'RE AIMING FOR THIS SORT OF SHAPE.



← 2 KEPT AS CHIN STRAPS



- USE THE 9<sup>th</sup> STRIP SET ASIDE EARLIER,
- FOLD ONE END OVER TO CREATE A FLAP
- ATTACH TO CENTRE OF FIRST HOOP, YOU CAN USE GLUE AND OR TAPE.

# 5

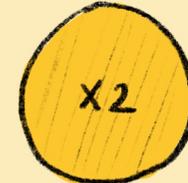
CONTINUE TO CURVE STRIP AROUND TOP OF ARCHS. USING TAPE TO HOLD THEM THE CORRECT DISTANCE APART FOR DESIRED SIZE / SHAPE.



## MAKING THE EARPIECES

# 6

- YOU'LL NEED 4 CIRCLES CUT FROM CARDBOARD.



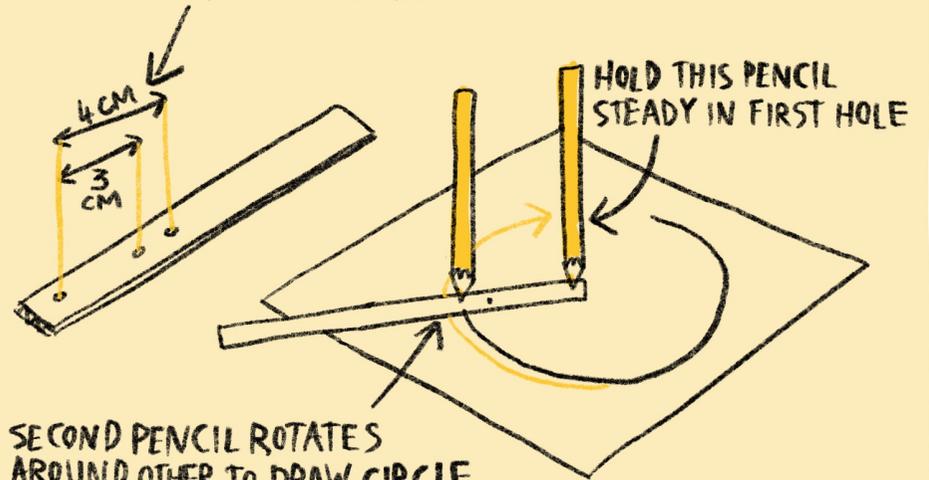
← ABOUT 8 CM

← ABOUT 6 CM

- (IF IT'S THIN DOUBLE UP YOUR BIG CIRCLES TO ADD STRENGTH)

- IF YOU CAN'T FIND THE RIGHT SIZE CIRCLES TO DRAW AROUND YOU CAN MAKE A COMPASS LIKE THIS:

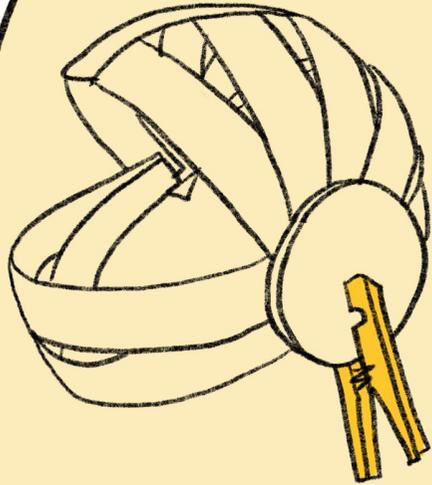
- CUT A STRIP OF CARDBOARD
- PUSH HOLES THROUGH AT THESE MEASUREMENTS



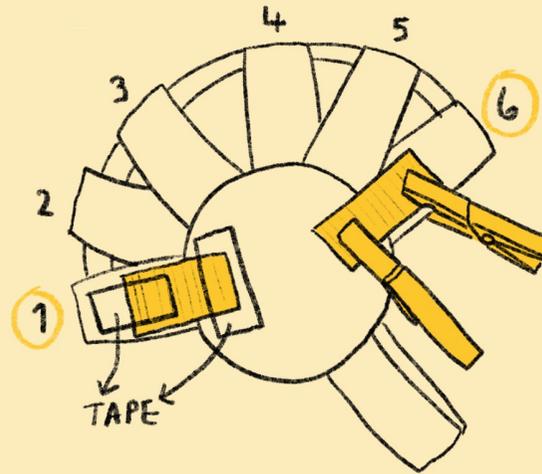
SECOND PENCIL ROTATES AROUND OTHER TO DRAW CIRCLE

REPEAT TWICE AT BOTH SIZES AND CUT THEM OUT.

# 7



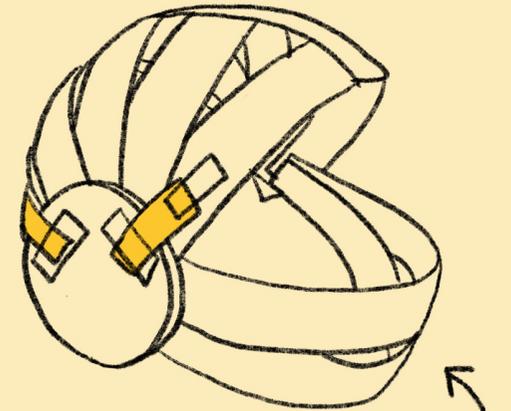
- TAKE A LARGE CIRCLE AND PUT A LITTLE GLUE IN THE CENTRE.
- HOLD IN PLACE OVER JOINING/PIVOT POINT ON HELMET BASE WITH PEG



- USE 2 PER SIDE TO CONNECT THE CIRCLE ONTO 2 OF THE 6 STRIPS MAKING UP YOUR HELMET BASE.
- USE GLUE AND PEGS TO HOLD WHILE THEY DRY
- YOU CAN USE TAPE TO SECURE THEM TOO (OR BOTH!)

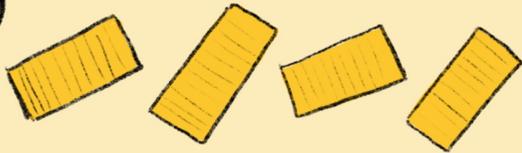
# 9

• REPEAT ON OTHER SIDE.



- DON'T ATTACH TABS TO THE STRIPS FOR THE CHIN STRAPS OR THEY WON'T BE ABLE TO MOVE ANYMORE!

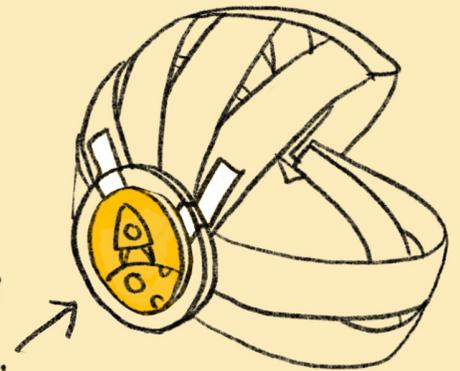
# 8

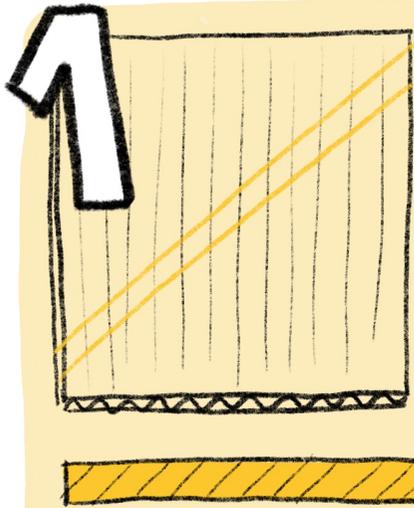


- CUT OUT 4 'TABS' FROM CARDBOARD

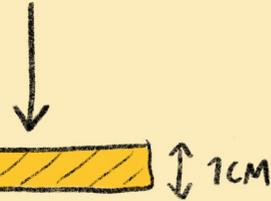
# 10

- GLUE SMALLER CIRCLES ON TOP FOR 3D EFFECT.
- BEFORE YOU DO YOU COULD USE COLLAGE TO DESIGN YOUR OWN PROJECT ARTIMIS MISSION BADGE.





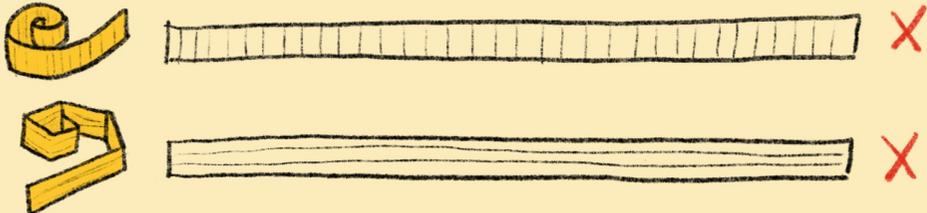
- USING A PIECE OF CORRUGATED CARDBOARD DRAW 2 STRAIGHT LINES ABOUT 1CM APART. CUT OUT.
- YOU WANT THE CORRUGATION TO PASS DIAGONALLY THROUGH THE STRIP



• WHEN YOU'VE CUT IT OUT BEND IT ALONG THE CORRUGATION LINES, IT WILL WANT TO SPIRAL.

2

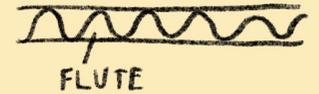
THIS IS HOW THEY WILL WANT TO BEND IF IT'S NOT CUT DIGAGONALLY:



(THESE AREN'T GREAT FOR THE AERIAL BUT WORK FOR OTHER THINGS!)

3

- THREAD THE BBQ SKEWER THROUGH A FLUTE (THATS WHAT THOSE WIGGLES ARE CALLED)



- WRAP STRIP AROUND SKEWER
- THREAD THROUGH ANOTHER FLUTE
- REPEAT



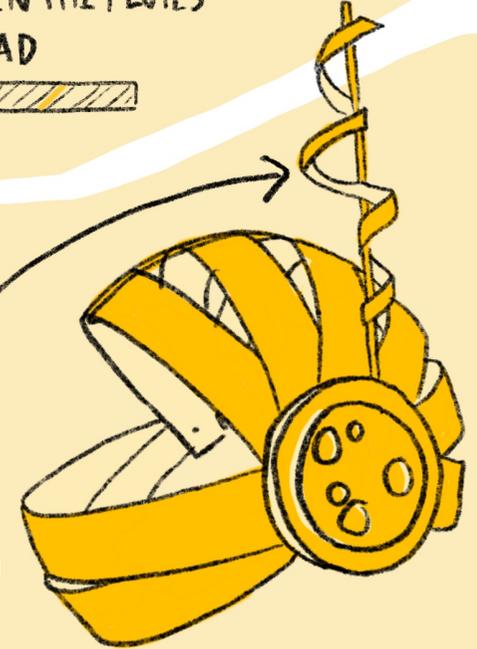
- CREATE BIGGER HOOPS BY LEAVING BIGGER GAPS BETWEEN THE FLUTES YOU CHOOSE TO THREAD

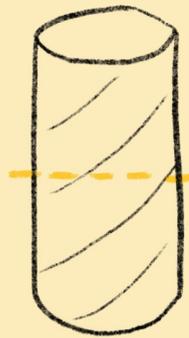


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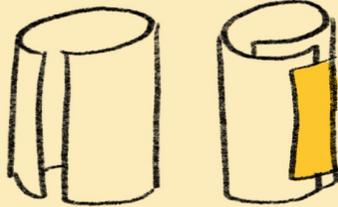
PUSH SPIKED END INTO THE EDGE OF THE LARGE CARDBOARD EARPIECE.

(IF YOU'RE USING A PAPER STRAW INSTEAD OF A SKEWER YOU CAN TAPE THIS ON TO YOUR EARPIECE)

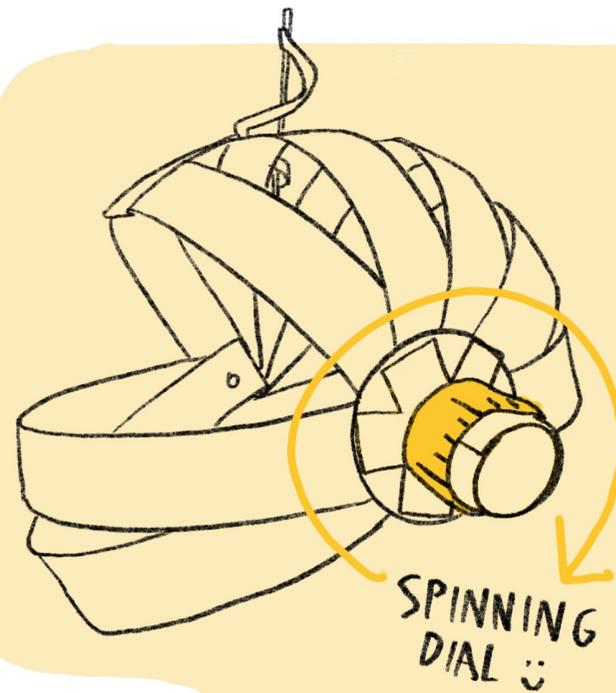
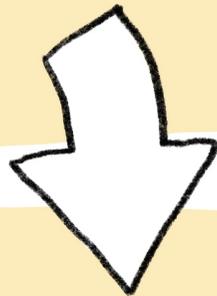




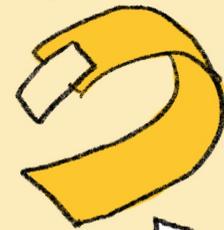
- START WITH A LOO ROLL TUBE
- CUT IN HALF



- CUT SLIT UP ↗
- ROLL INTO A NARROWER TUBE AND TAPE



ROLL AROUND TUBE AND USE TAPE TO SECURE RING.



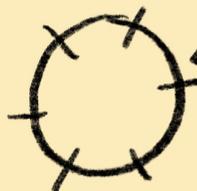
CUT OUT STRIP OF CARDBOARD



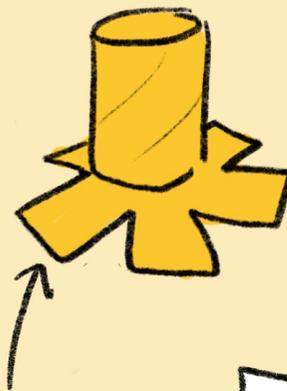
GLUE OR TAPE TABS ONTO EARPIECE.



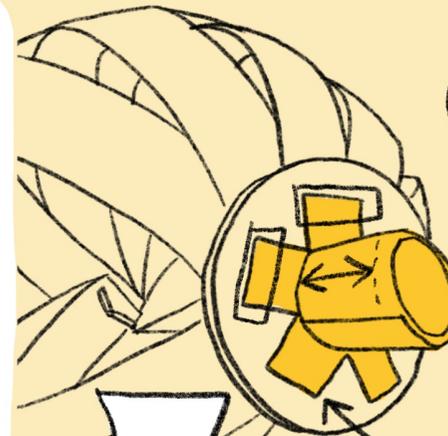
CUT SLITS ABOUT 1.5CM DOWN AROUND ONE END.

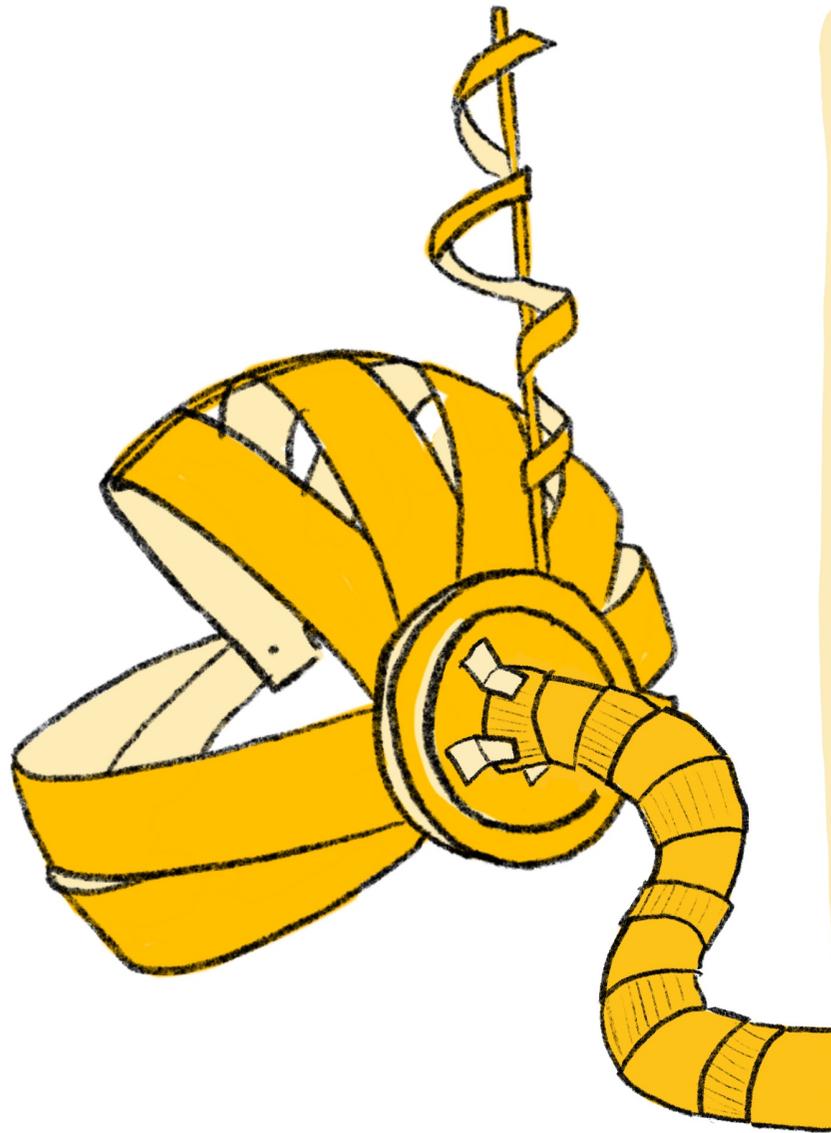


AT LEAST 6 WORKS BETTER



FOLD OUT TABS



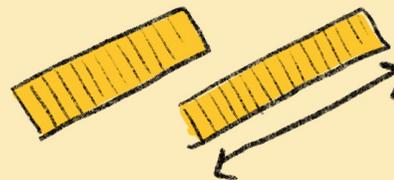
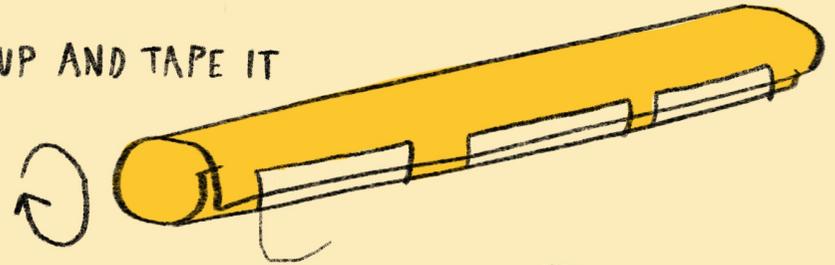


\* YOU COULD USE PIPE CLEANERS FOR A SIMILAR (AND EASIER!) WIRING EFFECT.



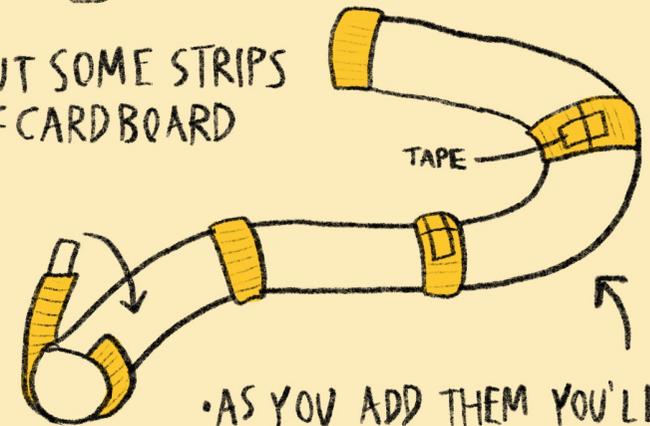
• START WITH A RECTANGLE OF PAPER.  
(THIN IS BETTER)

• ROLL IT UP AND TAPE IT

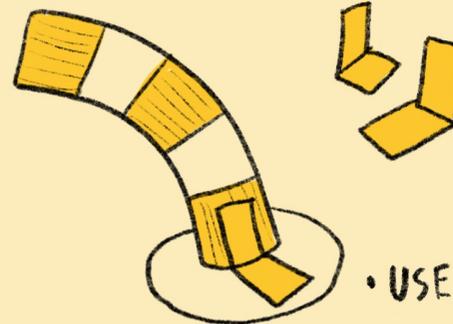


• CUT SOME STRIPS OF CARDBOARD

• ROLL THEM ROUND THE TUBE AND FIX WITH GLUE AND TAPE



• AS YOU ADD THEM YOU'LL BE ABLE TO BEND THE TUBE INTO A HOSE



• MAKE SOME CARDBOARD TABS

• USE TO ATTACH TO EAR PIECE