

Tool Design

Word of the Day

Empathy: Being able to understand and share another person's feelings.





How are scissors
used? (step-by-
step)

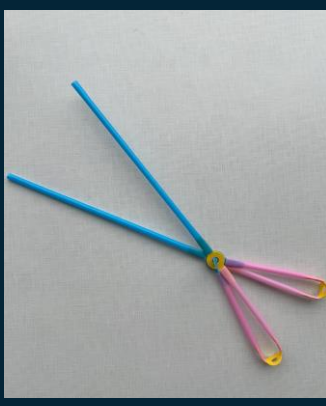
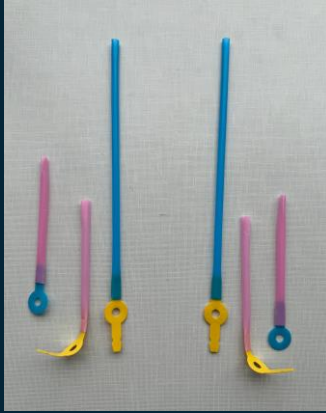
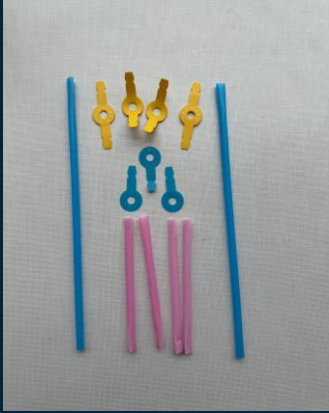


What does a user
need to have in order
to use scissors?

Who might struggle to
use scissors?

How might this affect
their life?

Strawbees build



Step 1: Insert yellow connectors into the ends of a pair of blue straws and a pair of pink straws.

Step 2: Insert a pair of blue connectors into two more pink straws

Step 3: Connect the pink straws on either end of the yellow connector, with a blue straw on the end of each.

Step 4: Align the two pieces and insert a blue connector in the center

Cardboard build



Step 1: Collect materials

Step 2: Poke holes in cardboard with a pencil

Step 3: Align the holes in the pieces of cardboard



Step 4: Insert the brass brad into the hole

Step 5: Fold the ends of the brass brad over

What group of people are you going to help?

**“Our group is trying to help _____ because
they might struggle to use scissors.
Our invention solves this problem by...”**

EXTENSION: Iterate!



What are the strengths and weaknesses of your cutting device?

- Do they cost more?
- Can right-handed people still use them?

Let's build it!