

MAKE A MECHANICAL PARADOX



THIS DEVICE, CONSISTING OF A DOUBLE CONE, GIVES THE IMPRESSION OF BREAKING THE LAWS OF GRAVITY. THAT IS THE REASON WHY IN THE 18TH CENTURY IT WAS CALLED "MECHANICAL PARADOX".

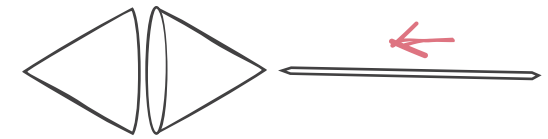
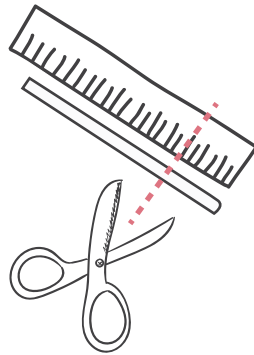
SUPPLIES:

- A4 CARDSTOCK
- A WOODEN BAMBOO STICK
- 5 BENDY STRAWS
- 4 LARGE STRAWS
- A PRINTER
- GLUE STICK
- A PAIR OF SCISSORS
- MASKING TAPE
- RULER IN CENTIMETERS
- COTTON THREAD (20 CM LONG)

1 PRINT, CUT OUT AND GLUE TOGETHER THE CONES FROM THIS WORKSHEET

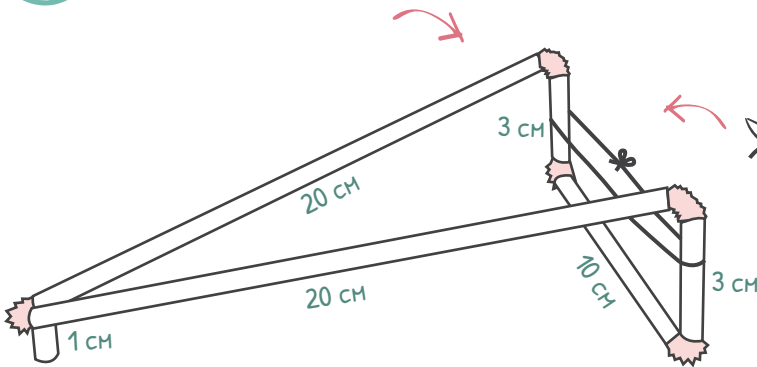
2 LINE UP AND TAPE THE TWO CONES TOGETHER WITH MASKING TAPE, THEN INSERT THE WOODEN BAMBOO STICK THROUGH THE TWO POINTS

3 CUT THE LARGE STRAWS IN:
 2 PIECES 20 CM LONG
 1 PIECE 10 CM LONG
 2 PIECES 3 CM LONG
 1 PIECE 1 CM LONG



4 CUT THE FLEXIBLE ELBOWS OFF OF THE BENDY STRAWS LEAVING OUT 0,5 CM OF THE STRAW TO BE INSERTED INTO THE BIGGER ONES

5 BUILD A FRAME OUT OF THE STRAWS AS DRAWN BELOW



6 TO STABILIZE THE FRAME, TIE TOGETHER THE ENDS WITH THE COTTON THREAD



WATCH:
THE CONE RISES!!!



THE DOUBLE CONE SEEMS TO GO UP HILL, BUT IN REALITY IT IS DESCENDING. THANKS TO THE SHAPE OF THE CONES AND THE DIVERGING BORDERS, ITS CENTER OF GRAVITY ACTUALLY DROPS, CREATING AN OPTICAL ILLUSION.

