

ROARING CUP

Take a paper or thermocole cup. Tie a large knot at one end of a string about 40-cm long. Make a small hole in the centre of the bottom of the cup. Weave the string through the hole. The knot should prevent the string from coming out. Rub your thumbnail down the string while squeezing and pulling the string tightly. You should hear a roaring sound. Why?

The cup acts as a cavity, which increases sound. A cavity helps to amplify and prolong sound because sound waves inside the cavity hit the walls, bounce back and reinforce each other. The roaring cup is a popular toy.

