

Hair Cell Model

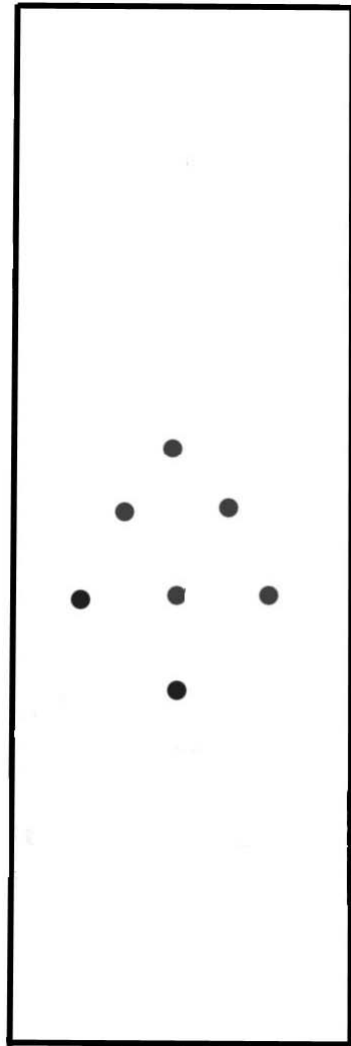
Materials needed

- paper template
- thin piece of cardboard
- 7 round toothpicks
- needle to make holes
- tape

Instructions

1. Fold along all lines on the paper template so that the paper begins to form a box. Fold so that all lines show on outside. Fold both ways on the indicated line segments. Let the paper relax to almost flat.
2. With the needle, gently poke a small hole through each of the 7 dots in the middle.
3. Cut along the indicated lines on the sides (marked **end**) of the box just below the top.
4. Cut a slider out of cardboard using the template on the right.
5. Use the needle to poke holes through each of the dots in the cardboard slider.
6. Thread the slider under the box top through the cuts in the ends of the box.
7. Poke toothpicks through holes in the box top and the corresponding holes in the slider underneath.

Adjust toothpick heights so that the single toothpick (the kinocillium) is tallest and the rest get gradually smaller moving away from it.
8. Fold the box up and tape it closed on the bottom.
9. Move the cilia by moving the slider back and forth.



cut this slider out of thin cardboard