

# Additional problems for Science Fight 4

9th IYNT 2021

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## 21. Salty water

What is the minimum concentration of sodium chloride in water solution such that a human detects the presence of salt? Use double blind tasting in your experiments.

## 22. Capillaries

Estimate experimentally the diameter of capillaries in paper or textile fabric.

## 23. Manifold bending

How many times can one fold a sheet of paper? Investigate how the result depends on the size of the original sheet.

## 24. Blowpipe

A small, lightweight projectile is shot out of a blowpipe. Investigate and measure the speed of the projectile.

## 25. Binaural hearing

Binaural hearing is the ability to hear in both ears and detect sound direction and sound distance. Make experiments to determine how precisely members of your team estimate the distance of the source and what direction a sound is coming from.

## 26. Boiling water

A noise is heard if water is boiled in a kettle. Investigate how this noise changes with time.