

Honey Experiment

Equipment:

about 10 thin glass plates
(microscope slides, for example)
holder
optionally projection possibility

“Chemicals”:

honey

Safety:

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Procedure:

Preparation: The thin glass plates are smeared with honey and then stacked one upon the other.

Procedure: The lowest plate is fixed in a suitable holder or held in place by hand. Subsequently, the topmost plate is slowly moved. It may be necessary to heat or cool the stack of glass plates until the honey has the optimum viscosity.

Observation:

The slow slide of the topmost plate leads to a movement by all of them in a defined manner (except the lowest one). The movement can be made particularly clear by a suitable projection. The stack of glass plates can also be passed around as a hands-on experiment.

Explanation:

The model experiment clearly shows the formation of a linear velocity profile in a liquid between a moving and a stationary plate.

Disposal:

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