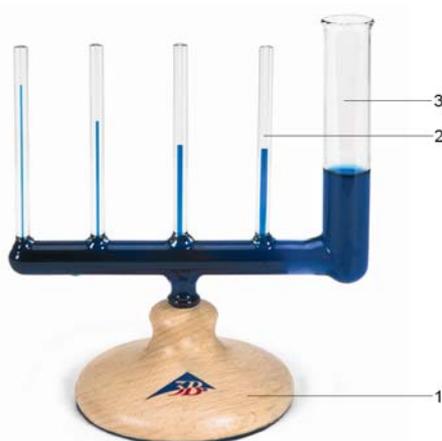


## Apparatus for Investigation of Capillary Effects 1003510

### Instruction sheet

06/12 ALF



- 1 Base
- 2 Capillary tubes
- 3 Filling tube, water reservoir

#### 1. Safety instructions

The apparatus for investigation of capillary effects is made of glass. There is a risk of breakage and therefore of injury!

- Handle the glass vessel carefully
- Avoid an exertion of mechanical loads on the apparatus.
- Be careful when using coloured water not to let it splash on your clothes, for example.

#### 2. Description

The apparatus for investigating capillary effects is for demonstrating capillary effects using thin glass tubes.

It consists of four capillary tubes of differing diameters connected together via a horizontal glass tube to a water reservoir.

The smaller the diameter of the capillary tube, the higher the water climbs above the level of the reservoir due to the greater hydrostatic pressure.

#### 3. Technical data

Internal diameters of the capillary tubes: 2.0; 1.5; 1.0 and 0.5 mm  
Height: 165 mm approx.

#### 4. Operation

It is practical to use coloured distilled water during the experiments. Recommended colouring dye:

Indigo Solution 1000793

When filling the water reservoir, it is not totally irrelevant how the task is performed. If the water is simply poured in, it is possible for air bubbles to be trapped in the capillary tubes, making it impossible to demonstrate the capillary effect as desired. It is not easy to remove such air bubbles.

- To fill the apparatus, hold it at an angle with the smallest-diameter tube nearest the top
- Carefully fill it with water
- Place the apparatus on a level surface and observe the capillary effect.

