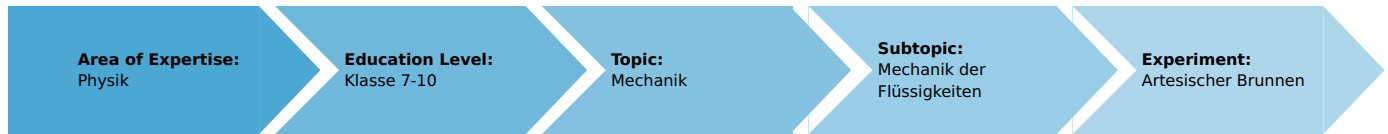


# Artesian wells (Item No.: P1297100)

## Curricular Relevance



### Difficulty



Easy

### Preparation Time



10 Minutes

### Execution Time



10 Minutes

### Recommended Group Size



1 Student

**Additional Requirements:**

**Experiment Variations:**

**Keywords:**

## Principle and equipment

### Principle

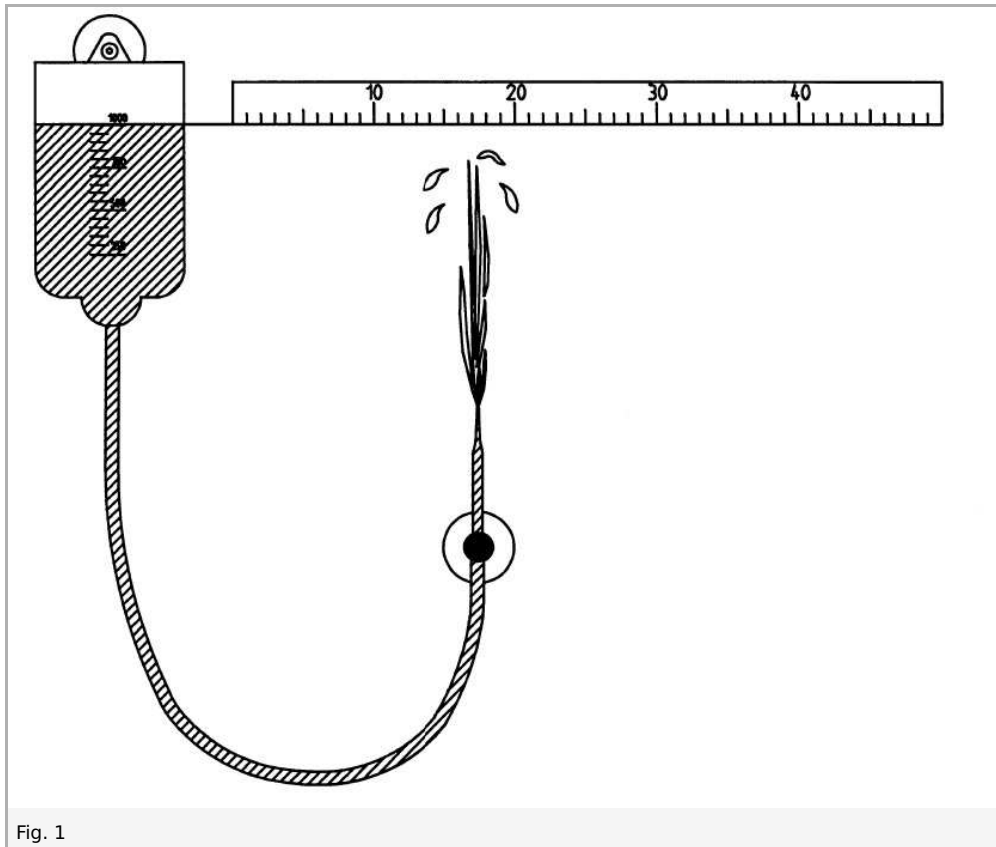
The principle of an artesian well is to be demonstrated.

### Equipment

Position No.	Material	Order No.	Quantity
1	Demo Physics board with stand	02150-00	1
2	Scale for demonstration board	02153-00	1
3	Clamping holder, 0-13 mm, fixing magnet	02151-07	1
4	Storage tray, 413 x 120 x 100 mm	47325-01	1
5	Overflow vessel on fixing magnet	02158-00	1
6	Graduated vessel, 1 l, with handle	36640-00	1
7	Beaker, low form, plastic, 100 ml	36011-01	1

## Set-up and procedure

- Place the efflux vessel at the top edge of the demoboard. Fit the pinch-cock on the tubing immediately in front of the glass nozzle and close it. Pour about 1000 ml of water into the vessel and squeeze air bubbles out of the tubing.
- Place the dish on the bench below the board.
- Position the clip holding the glass nozzle of the efflux vessel at the lower edge of the board, and align the nozzle, so that it is not exactly vertical.
- Position the rule horizontally at the height of the water level (Fig. 1).
- Open the pinch-cock and observe how the water emerges from the "artesian well"; while this is happening, keep pouring water steadily into the efflux vessel, so that the water level changes as little as possible.



## **Observations and evaluation**