

## **Material:**

Item Code	Qty	Description
DS101-1G	1	Support base, large, L=500 mm
DS400-2R	1	Clamp on saddle
DW121-1S	1	Tuning fork large 02, variable frequency
	3	Sheets of paper A4
	1	Adhesive tape

## USING THE TUNING FORK WITH STYLUS

### Goal:

Let's try to record the vibration of a tuning fork.

### Setup:

- The clamp on saddle is placed centrally on the support base and fixed.
- The writing tuning fork with the handle is clamped into this clamp.
- Using a tape, we stick two to three sheets of paper together lengthwise.

### Experiment:

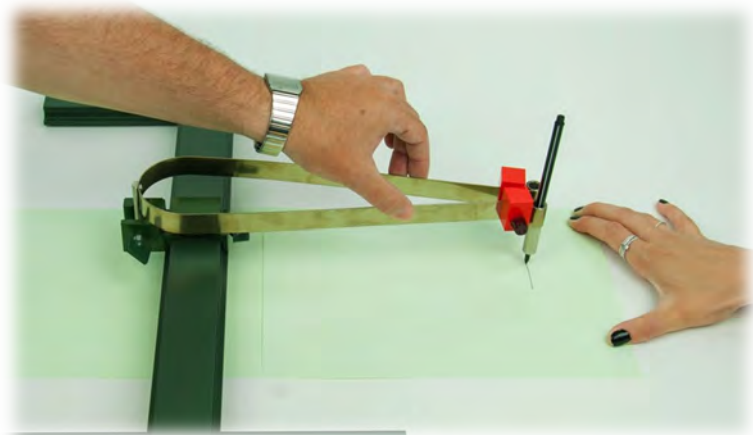
The sheets of paper are placed under the end of the writing tuning fork.

We put the writing pen through one of the two sleeves at the leg end of the tuning fork.

The clamp weights are fixed at the same height at the ends of the legs.

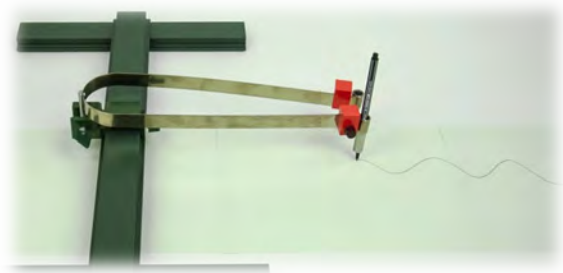
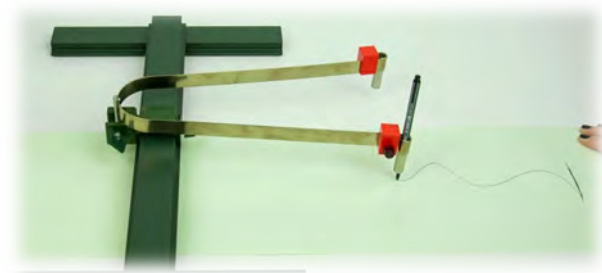
With one hand, we press the two legs of the tuning fork together.

We let go of the legs and quickly pull the sheets of paper through underneath the stylus with the other hand.



### Conclusion:

The pencil draws the oscillation of the leg on the paper.



### Note:

Try to pull the sheets of paper quickly, but at a steady speed. The result should be similar to a sine curve.