RESONANCE – TUNING FORK 2 AKD 05.02

Material:

Item Code	Qty	Description
DW100-1A	2	Tuning fork, 440 Hz, with resonance box
DW110-1A	1	Tuning fork mallet
DS085-1R	1	Round base with stand tube, uni
C7007-1F	1	Flexible neck with metal clamp
DW152-1P	1	Pendulum ball, hard plastics, D=40 mm
DW110-1L	1	Tuning fork rider

RESONANCE – TUNING FORK 2 AKD 05.02

Goal:
Resonance occurs only when two or more bodies have the same frequency.

Setup:
The two tuning forks in the resonance boxes are placed opposite each other so that the openings are facing each other. The clamp with flexible neck is fixed in the round base. This is stretched as much as possible. The string is attached to the ball and pinched in the clamp.

Now position the ball so that it just touches one of the two tuning forks (the easiest way is to push the tuning fork towards the ball).

Experiment:
The free tuning fork is struck.

Result:
The second tuning fork resonates in the resonance case. The vibrations are transmitted to the table tennis ball, which starts to move.

Addition:
If the frequency of a tuning fork is now changed with the help of the barrel body, no resonance occurs, the ball does not resonate.