RESONANCE – TUNING FORK 3 AKD 05.03

Material:

Item Code	Qty	Description
DW100-1A	2	Tuning fork, 440 Hz, with resonance box
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
P3120-4A	1	L-shaped assembly platform
P3120-1G	1	Function generator with digital display "inno"
P3120-1B	1	Rechargeable battery, "inno", 6V/10 Ah
DG520-1C	1	Connecting lead, double, 50 cm
MB240-1LS	1	MBC Loudspeaker with nose

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Goal:
It does not necessarily have to be two tuning forks to trigger resonance. The right frequency is sufficient.

Setup:
The function generator is connected to the loudspeaker with the double cable. The tuning fork in the resonance box is set up. The clamp with flexible neck is fixed in the round base. This is stretched as much as possible. The cord is attached to the ball and pinched in the clamp.

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

Experiment:
The function generator is set to 440 Hz. The loudspeaker is moved to the opening of the resonance box.

Result:
As soon as the frequency of the tuning fork is reached, it resonates. The vibrations are transmitted to the table tennis ball, which starts to move.

Note:
The amplitude of the frequency generator should be at maximum.
It may be necessary to vary the frequency if the tuning fork is not properly seated in the resonance box.