INTERFERENCE OF WAVES

NAME _____ **DATE** _____

PRE-TEST.

It is possible for two waves to cancel each other? Explain.

OBJECTIVE: To determine wave interference using different phases.

MATERIALS: Tuning fork, LabPro device(Pasco).

INTRODUCTION: Sound is created by a vibrating object producing the less interference. In order to produce this less amount of interference, different angle of phases are used to determine the loudness and soft sound.

PROCEDURE: Turn the LabPro(Pasco)

Go to Output.
Push √
Output Setting.
Push √
Select Phase
Push √
Waveform = Sine
Frequency = 400 Hz
Phase - / + to increase or decrease the phase value.

DATA TABLE:

LEFT OUTPUT	RIGHT OUTPUT	OUTPUT OF SOUND (SOFTER/LOUDER)
180	0	
180	90	
180	360	
90	0	
360	90	

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QUESTIONS:

1. What phase do you hear loudest constructive interference?
2. What phase do you hear soft constructive interference?
3. What phase do you hear destructive interference?

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