
Tuning Forks~Is sound really a wave?

Problem: Can you see a sound wave? Can you demonstrate resonance?

Research:

Hypothesis: If you create a sound wave with a tuning fork, then you can see the sound wave by _____

Test: Materials- tuning forks, pans of water

Procedure:

1. Tap one tuning fork. Without tapping, place a second one, of the same frequency, 1 cm from the first. Note what happens to the 2nd fork.
2. Again tap one tuning fork. Place a 2nd tuning fork, this time of the same frequency, 1 cm from the first,
3. Using one tuning fork, tap it to get a good sound. Touch the edge of the water with the fork. Note the reaction.

Data/ Observations:

Action:	Observation
1 fork with a same frequency fork	
1 fork and different frequency fork	
Tuning fork touching water	

Conclusion: When you create a sound wave with a tuning fork, then you can see the wave by _____