

JACK

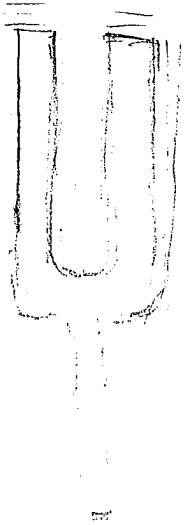
Name: _____

Date: 2/18/09 Period: 4

Investigating Tuning Forks

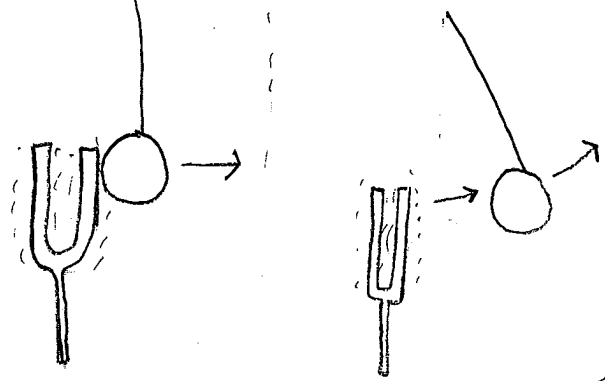
Part I: Observation Notes

Tuning Fork



The tuning fork vibrates when hit against a hard

Ping-Pong Ball



Touched the tuning fork with ping pong ball.

The ball was away from the fork because the fork was vibrating.

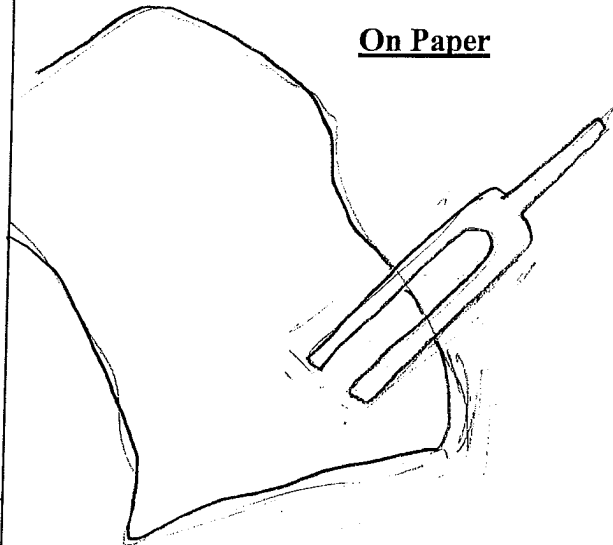
In Water



Water

The tuning fork's vibrations cause the water to vibrate and splash.

On Paper



When the tuning fork is against the paper the paper vibrates and makes a buzzing sound.

RONALDO

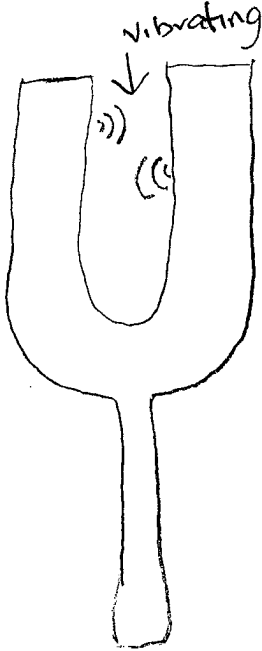
Name

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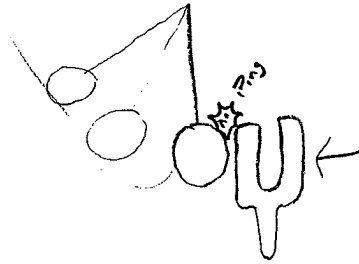
Investigating Tuning Forks

Part I: Observation Notes

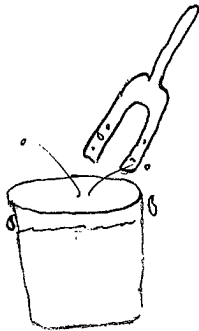
Tuning Fork



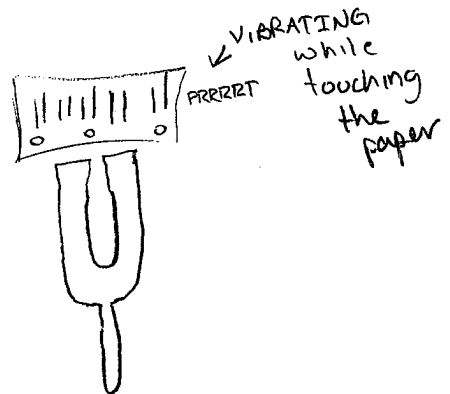
Ping-Pong Ball



In Water

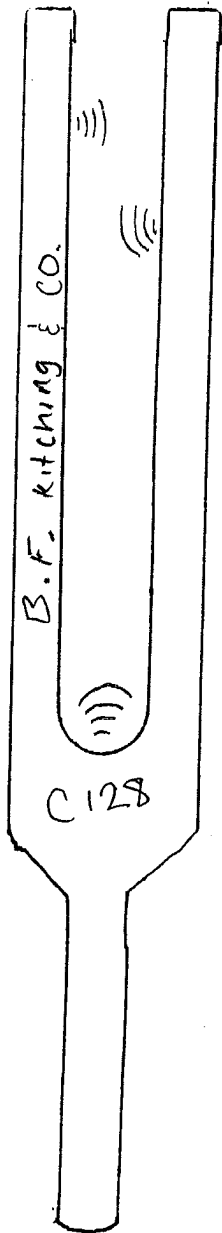


On Paper

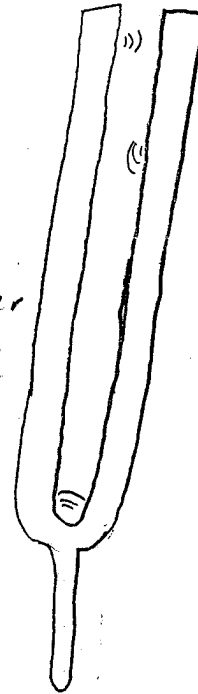


Part II: Modeling a Tuning Fork

Tuning Fork #1



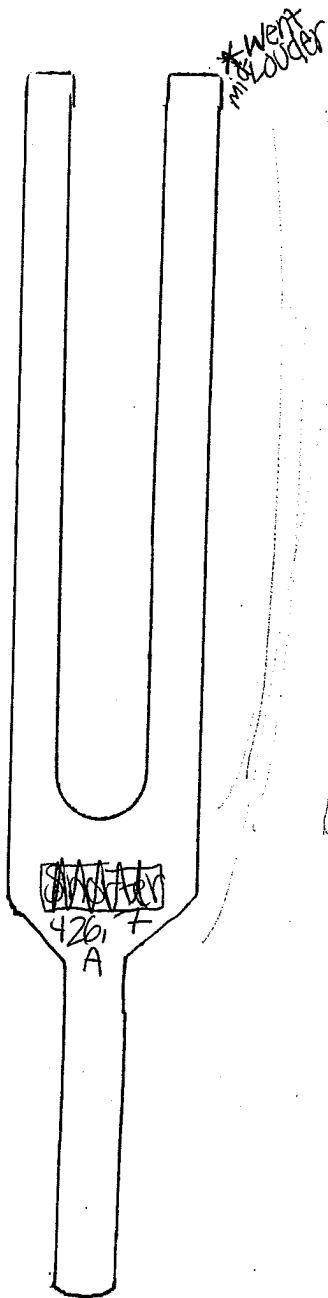
Tuning Fork #2



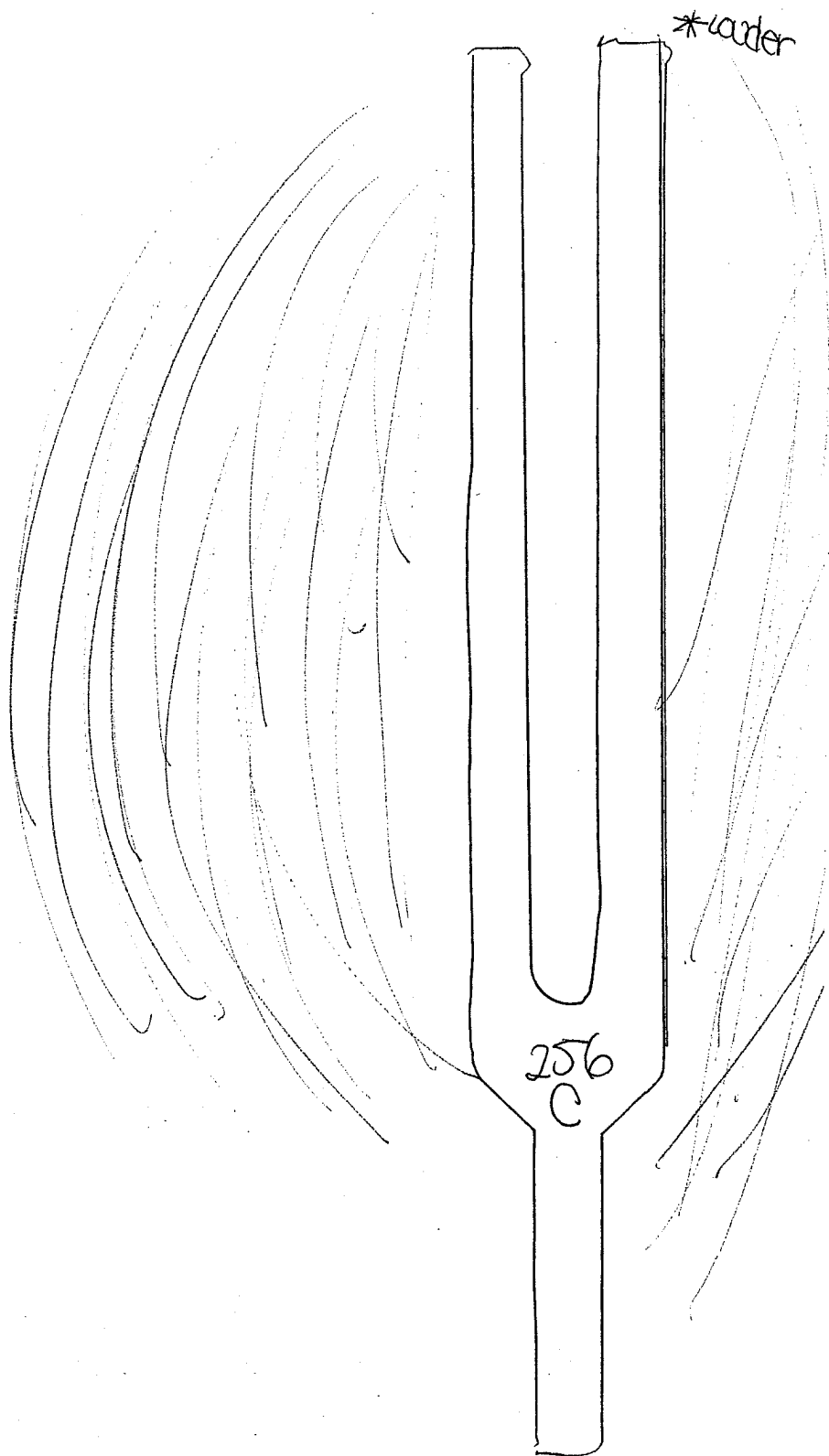
Different sound effects one is higher than the other one

Part II: Modeling a Tuning Fork

Tuning Fork #2



Tuning Fork #1



JOE

Name _____

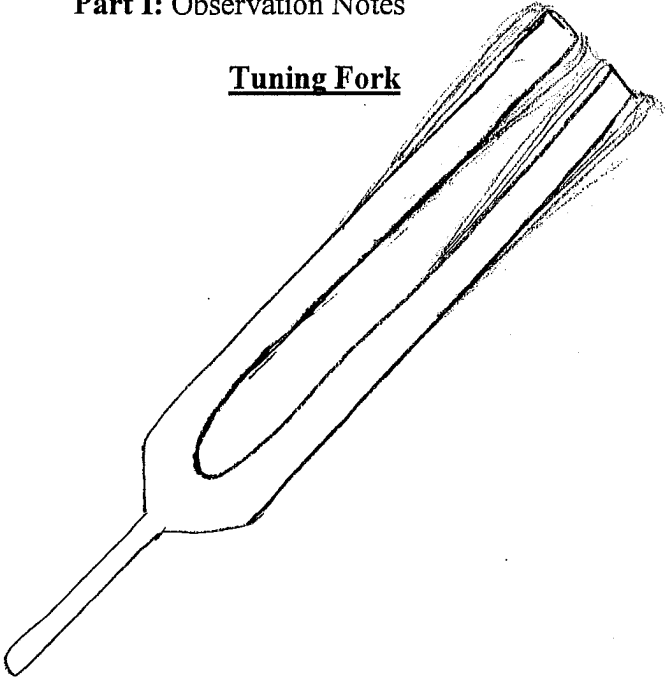
Date: 2/18

Period: 4

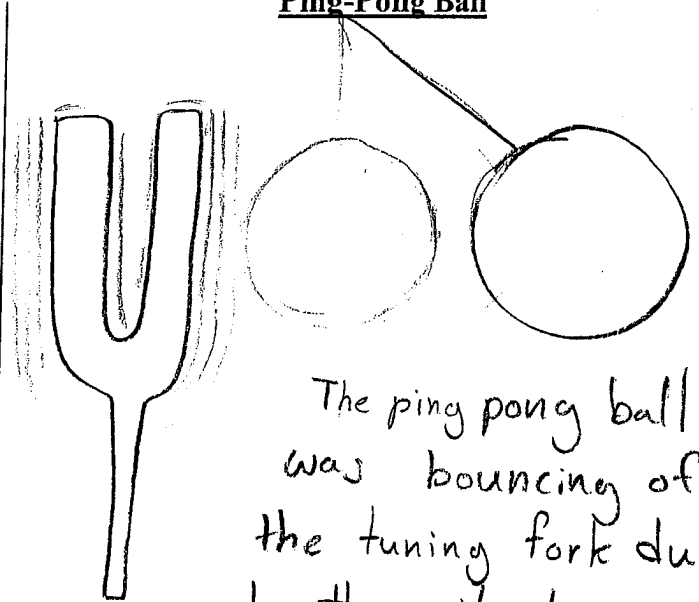
Investigating Tuning Forks

Part I: Observation Notes

Tuning Fork

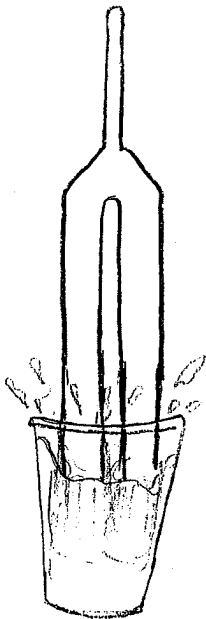


Ping-Pong Ball

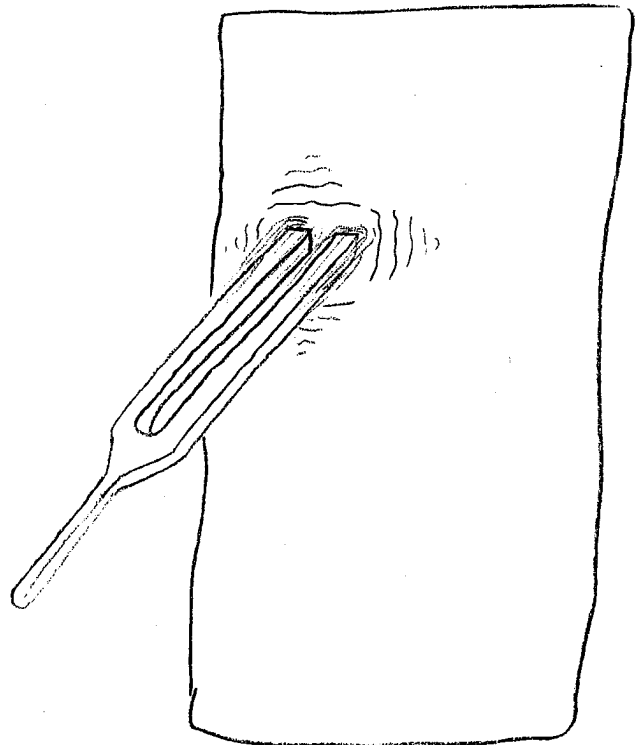


The ping pong ball was bouncing off the tuning fork due to the vibration.

In Water



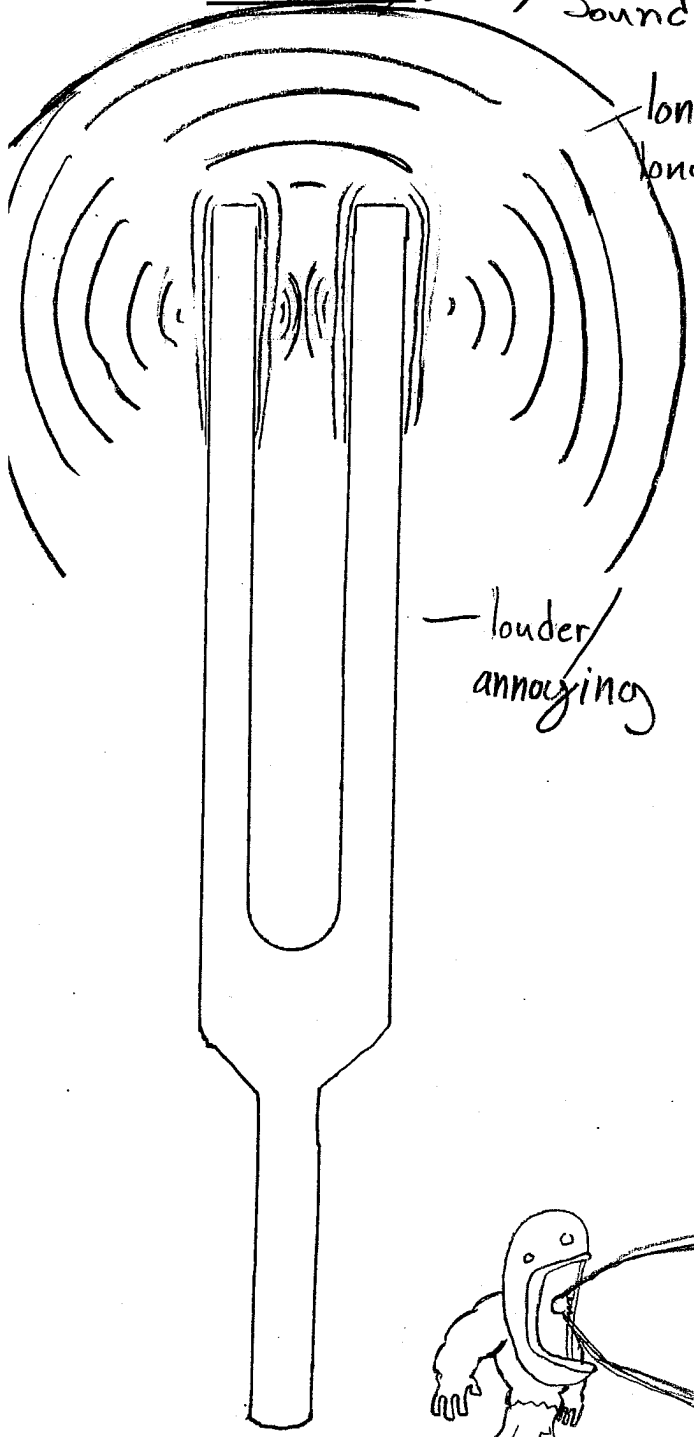
On Paper



Part II: Modeling a Tuning Fork

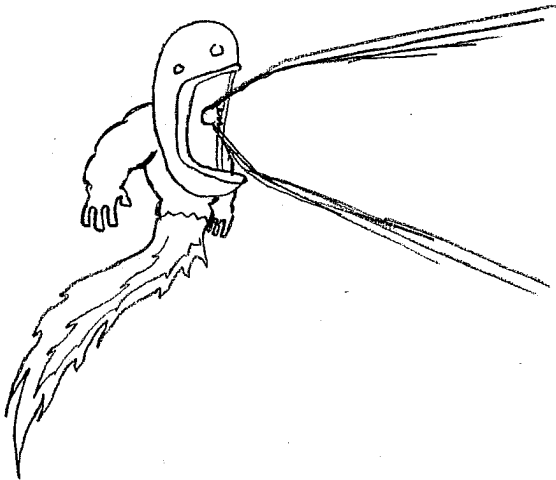
Tuning Fork #1 / 2

Sharp
Sound



long gaps
long sound

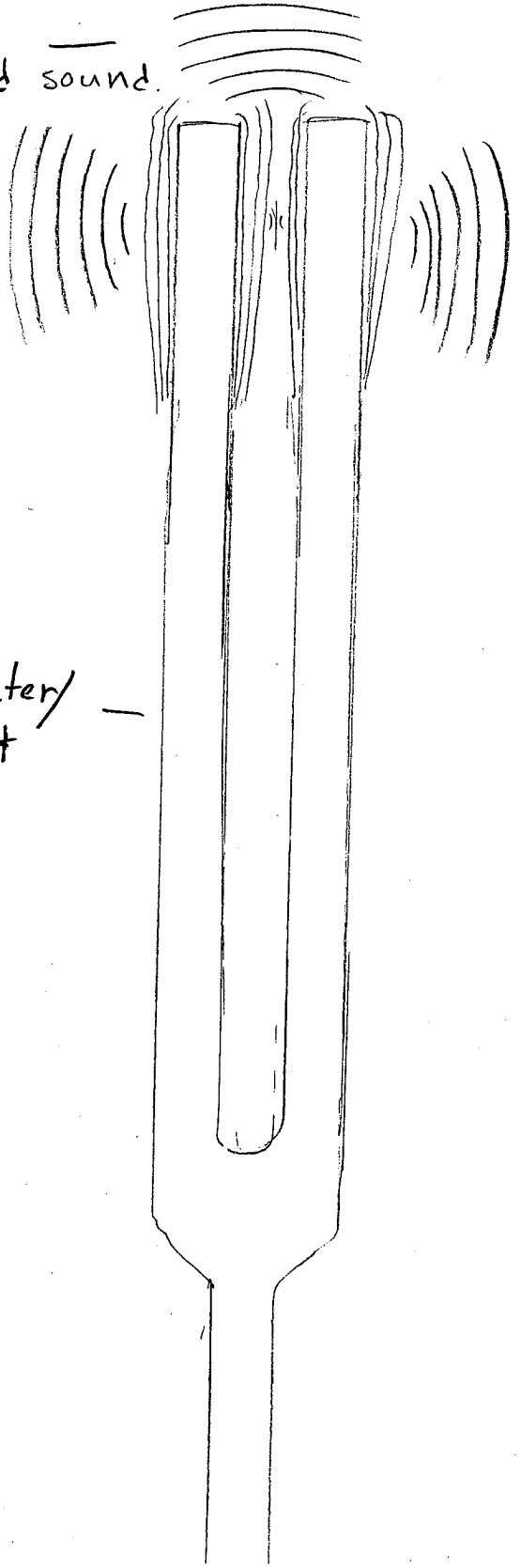
— louder/
annoying



Tuning Fork #2 / 1

Short gaps
short sound.

dull/
broad sound.

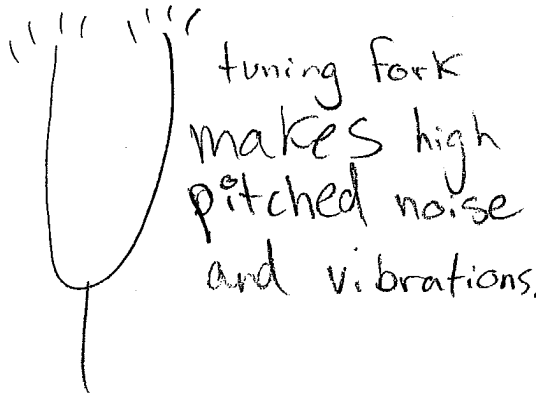


quieter/
faint

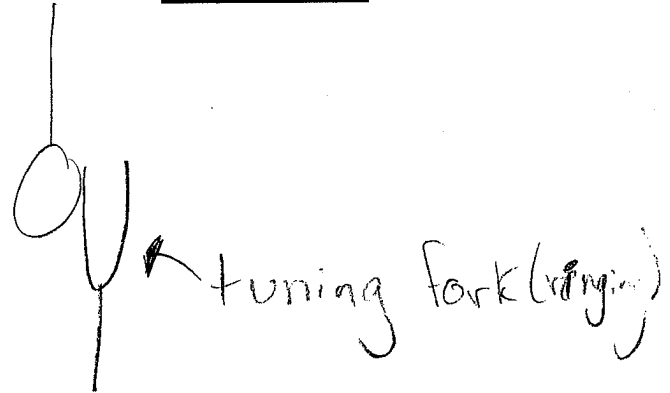
Investigating Tuning Forks

Part I: Observation Notes

Tuning Fork

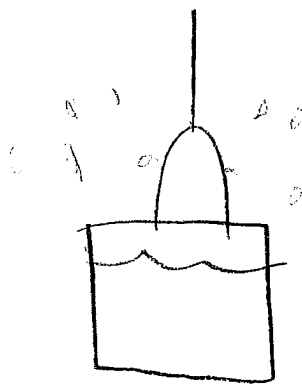


Ping-Pong Ball



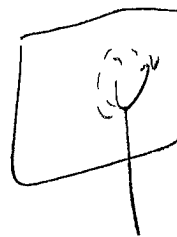
when we touched the ringing tuning fork to the ball it moved away from the tuning forks

In Water



water splashes and makes little waves

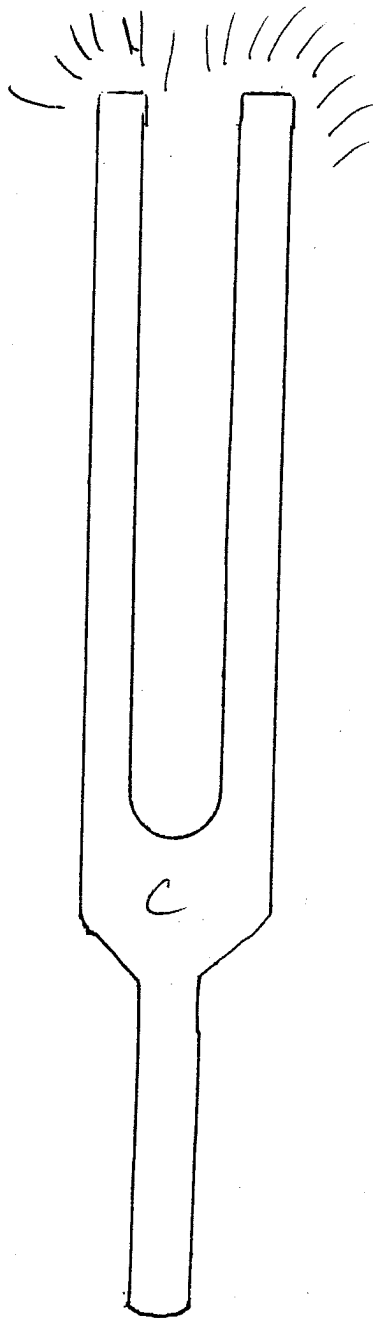
On Paper



the paper makes a vibrating noise

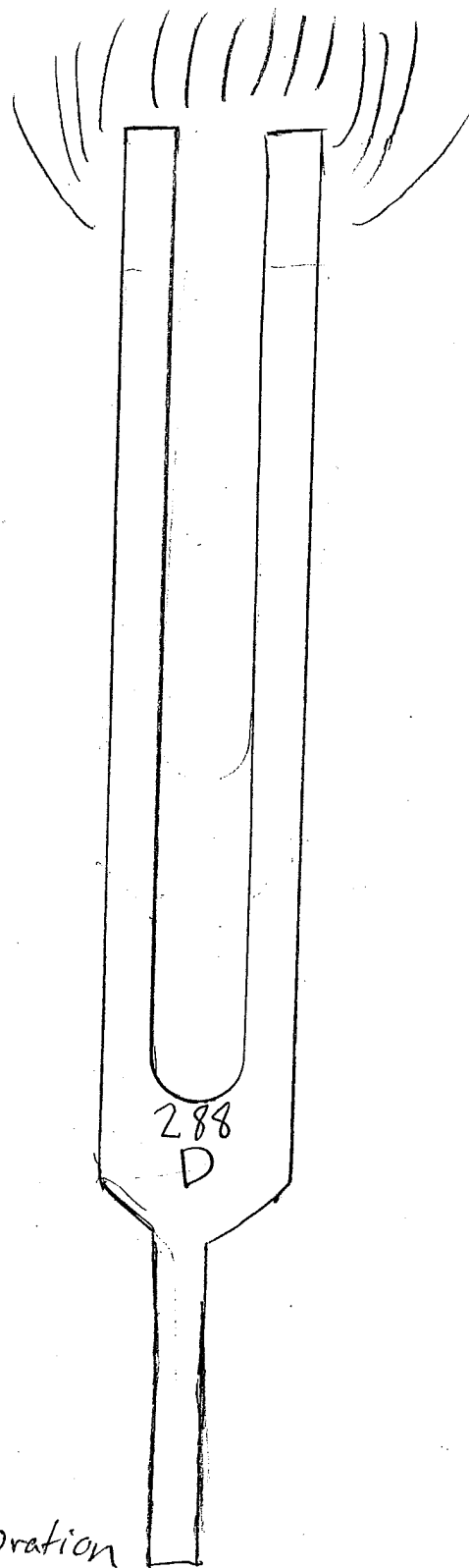
Part II: Modeling a Tuning Fork

Tuning Fork #1



this one makes
a higher pitched noise.

Tuning Fork #2



they make a vibration

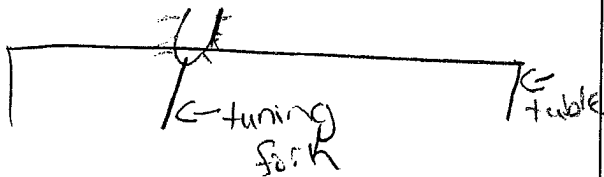
this one makes a
lower noise.

Investigating Tuning Forks

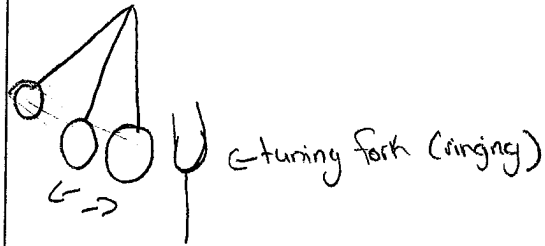
Part I: Observation Notes

Tuning Fork

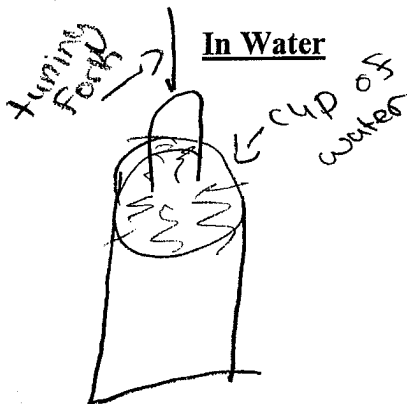
- When we hit the tuning fork against the table it vibrated and made a ringing sound that didn't stop until we touch. How hard it vibrated depended on how hard you hit it on the table.



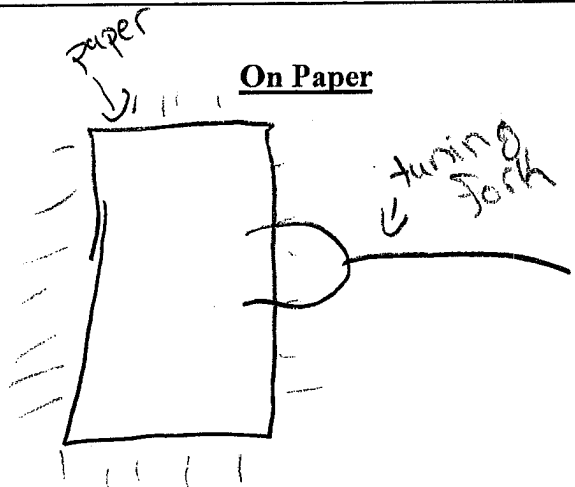
Ping-Pong Ball



- When we touched the ringing fork to the ball it moved away from the tuning fork. Actually it really bounced off.



- When we hit the tuning fork on the table and then put it in the water the water splashed a little. It kind of looked like a mixer in a bowl of water at first.



- When we hit the tuning fork on the table and then put it on the piece of paper the paper vibrated. The paper looked like it was sitting on top of a dryer or something of that effect.

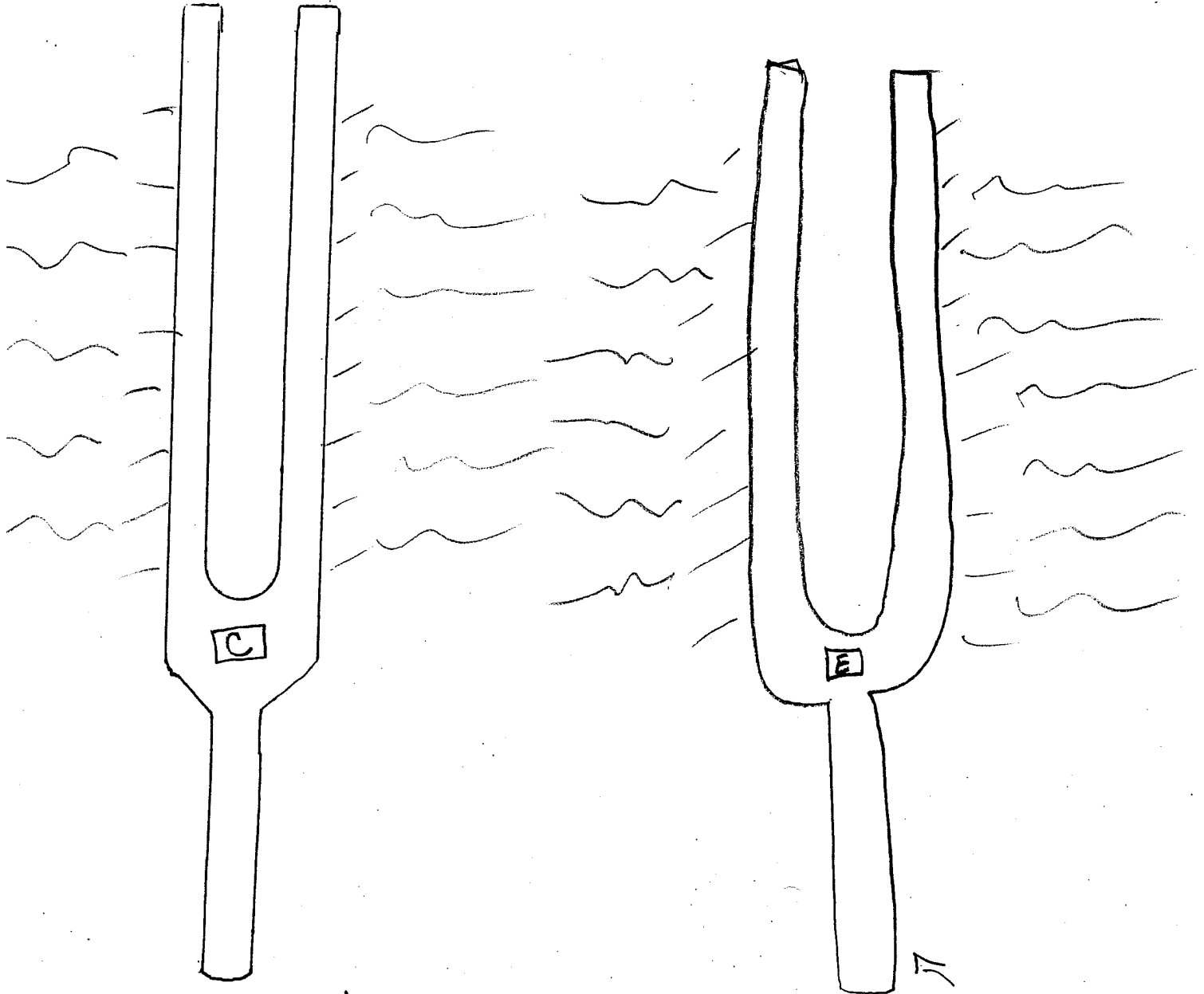
Part II: Modeling a Tuning Fork

Tuning Fork #1

~ = sound waves
- = vibrations

Tuning Fork #2 was shorter than tuning fork #1

Tuning Fork #2



Lower pitch and note than tuning fork #2.

Higher pitch and note than tuning fork #1.

Investigating Tuning Forks

Part I: Observation Notes

Tuning Fork

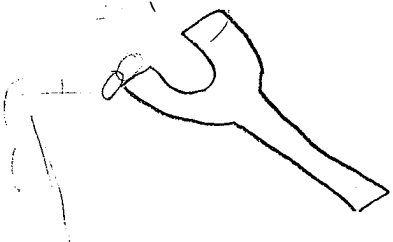
Ping-Pong Ball



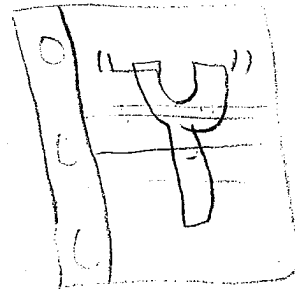
It moved opposite direction
tuning fork

In Water

On Paper



It vibrates and it makes the water splash and jump

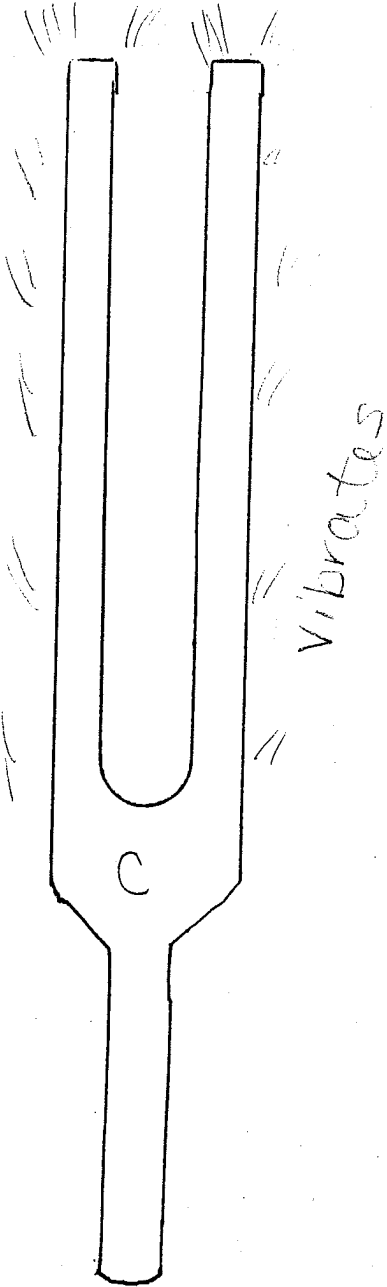


It vibrates and it makes a vibrational sound when the tuning fork is near the paper.

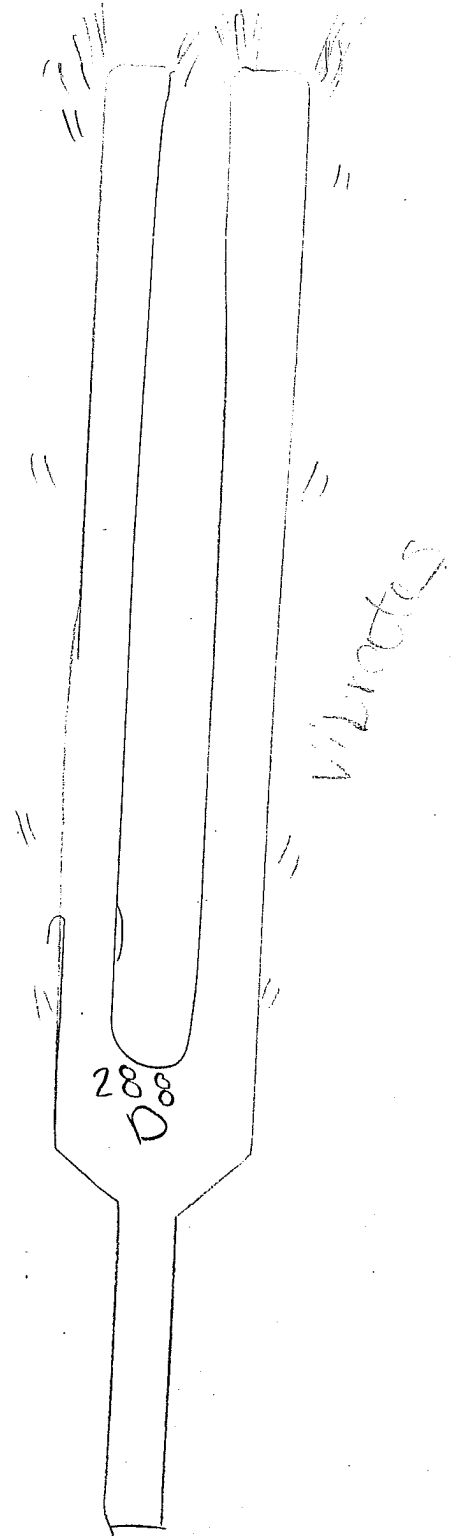
STACY

Part II: Modeling a Tuning Fork

Tuning Fork #1



Tuning Fork #2



The 1st one was more higher because since the 2 short picks are together they make a higher pitch tone.

The 2nd one was more lower sound because the 2 picks are longer.

Investigating Tuning Forks

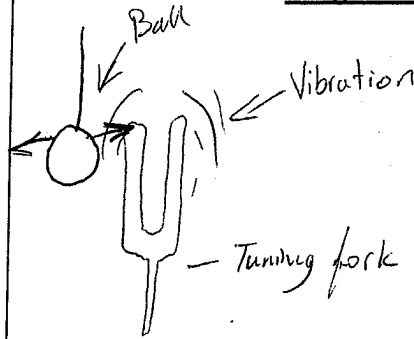
Part I: Observation Notes

Tuning Fork



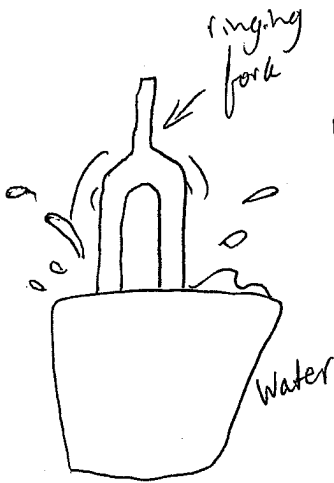
The tuning fork makes a strong vibration noise or motion.

Ping-Pong Ball



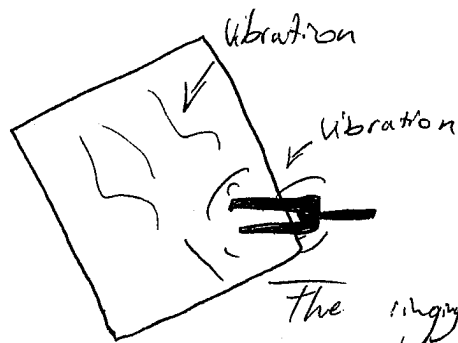
~~The tuning fork being touch~~
Having the ringing fork touching the ball, this cause the ball to move in many direction.

In Water



The ringing fork vibration cause the water to splash around or throw itself.

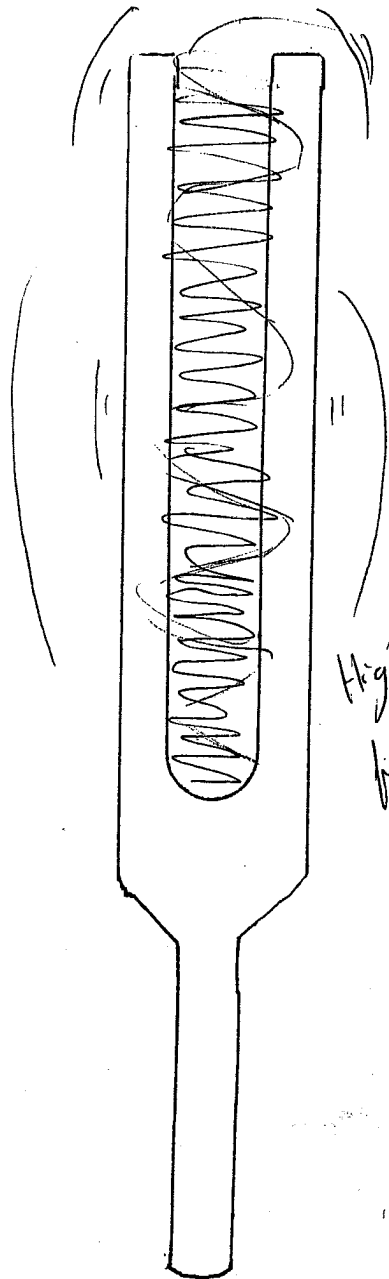
On Paper



The ringing fork cause the paper to make a noise.

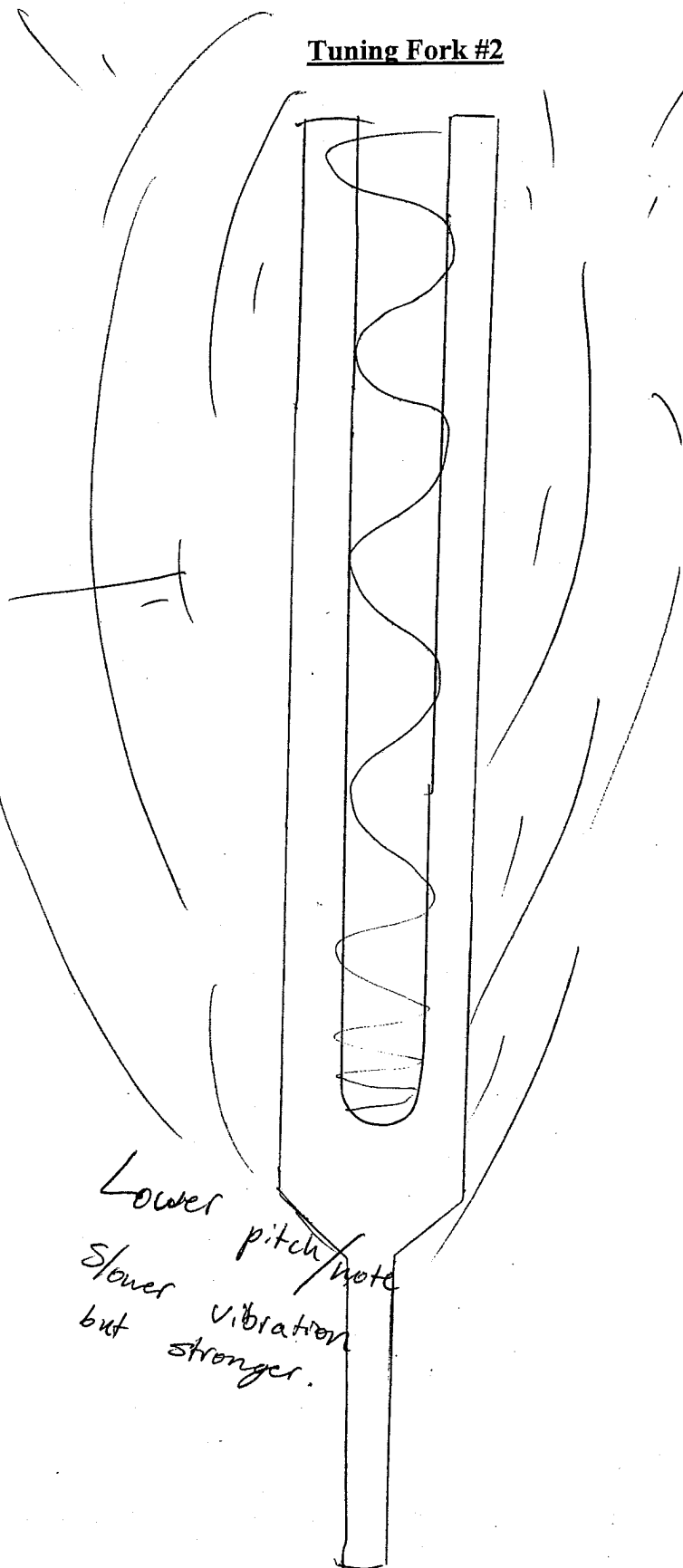
Part II: Modeling a Tuning Fork

Tuning Fork #1



Higher pitch/note
faster vibration but
weaker

Tuning Fork #2



Lower pitch/note
Slower vibration
but stronger.