

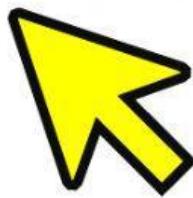


SCIENCE
CHAPTER 7- ENERGY
LESSON 2- SOUND
SOUND LAB



Created by- Nisha Tanwar

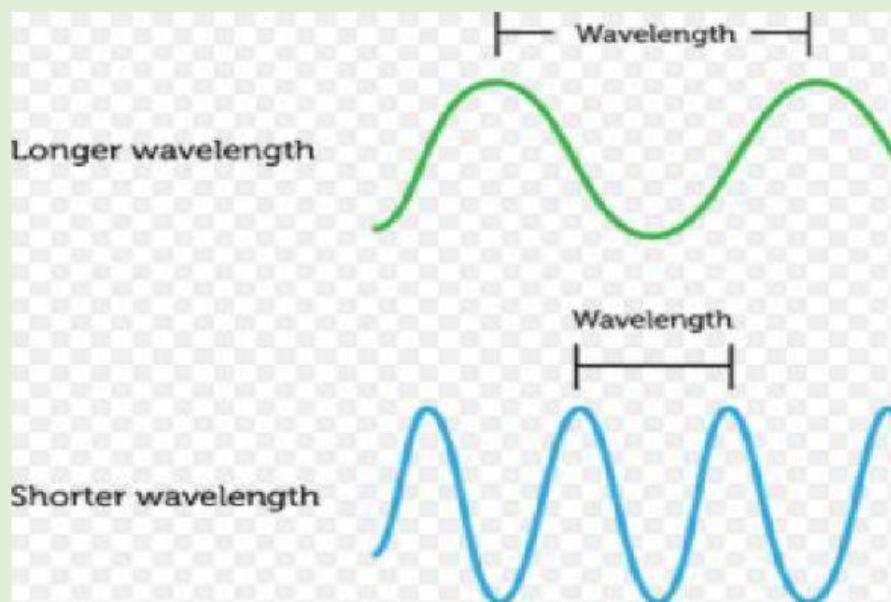
LAB BASED QUESTIONS



**CLICK ON
YELLOW ICON
TO OPEN
VIRTUAL LAB**

WAVELENGTH

It is the number of vibrations in one second



CLICK ON YELLOW ICON TO OPEN SOUND LAB



live input

Square

Sine

Sawtooth

Triangle

Volume

Play with a wave

Frequency

2 3 5 6 7 9 0 =

Q W E R T Y U I O P []

Which one has longer wavelength?

W **P**

live input

Square

Sine

Sawtooth

Triangle

Volume

Play with a wave

Frequency

2 3 5 6 7 9 0 =

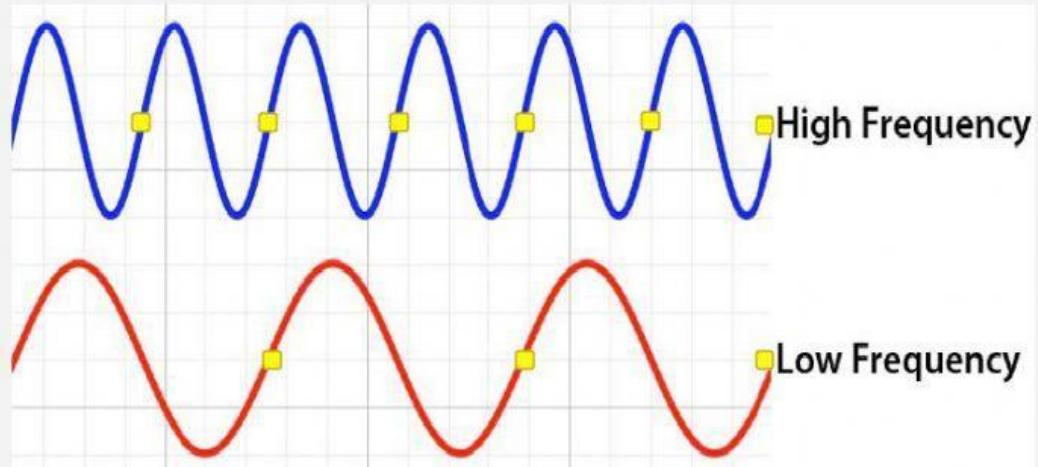
Q W E R T Y U I O P []

Which one has shorter wavelength?

0 **2**

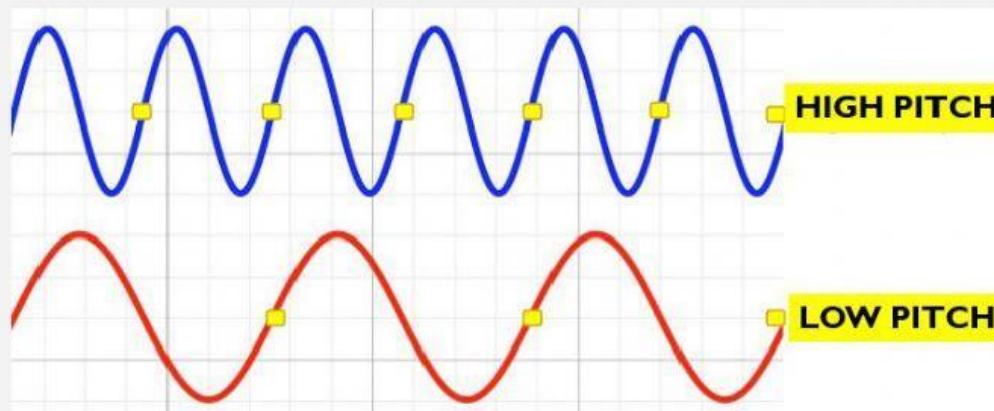
FREQUENCY

Number of waves in 1 second

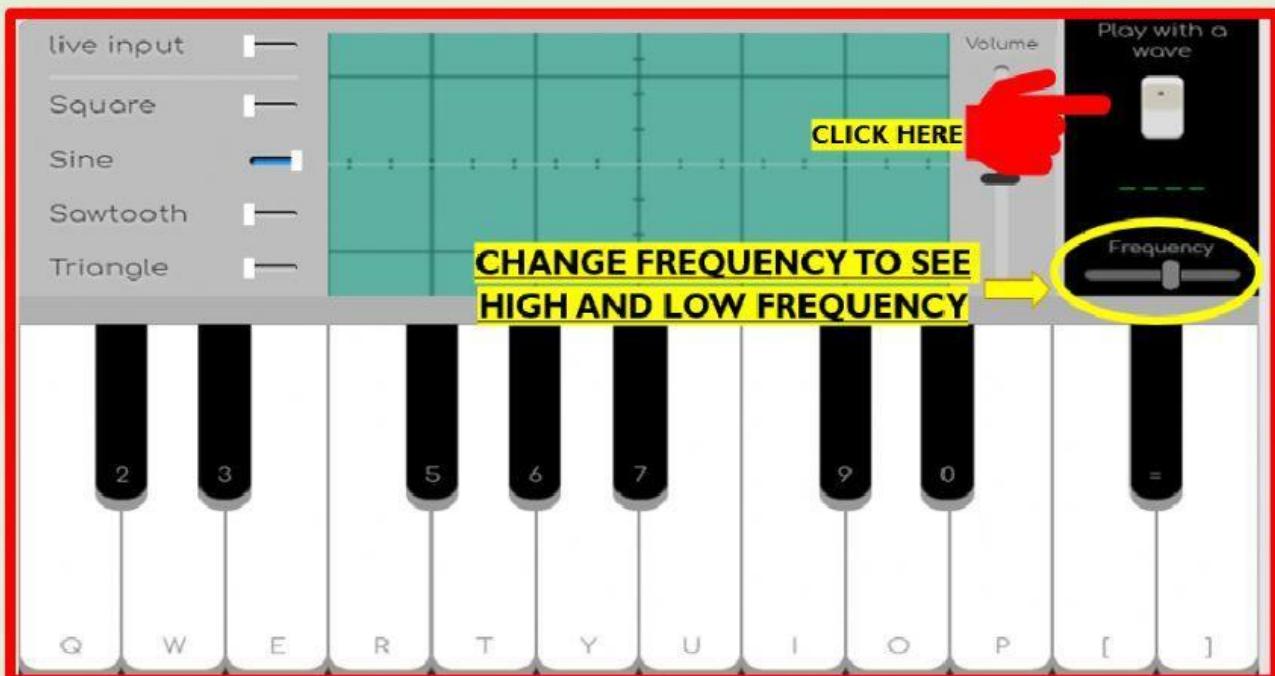
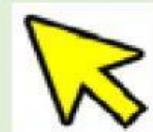


PITCH depends on frequency

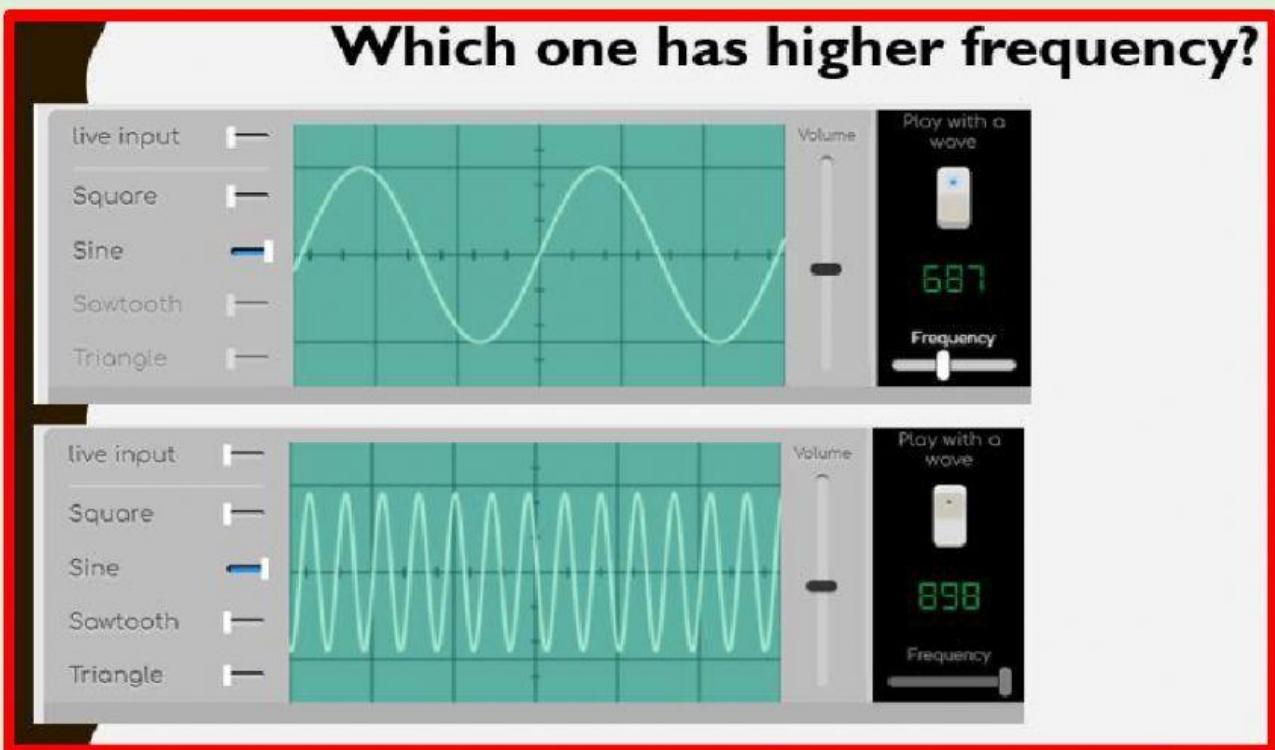
It is degree of highness or lowness of sound



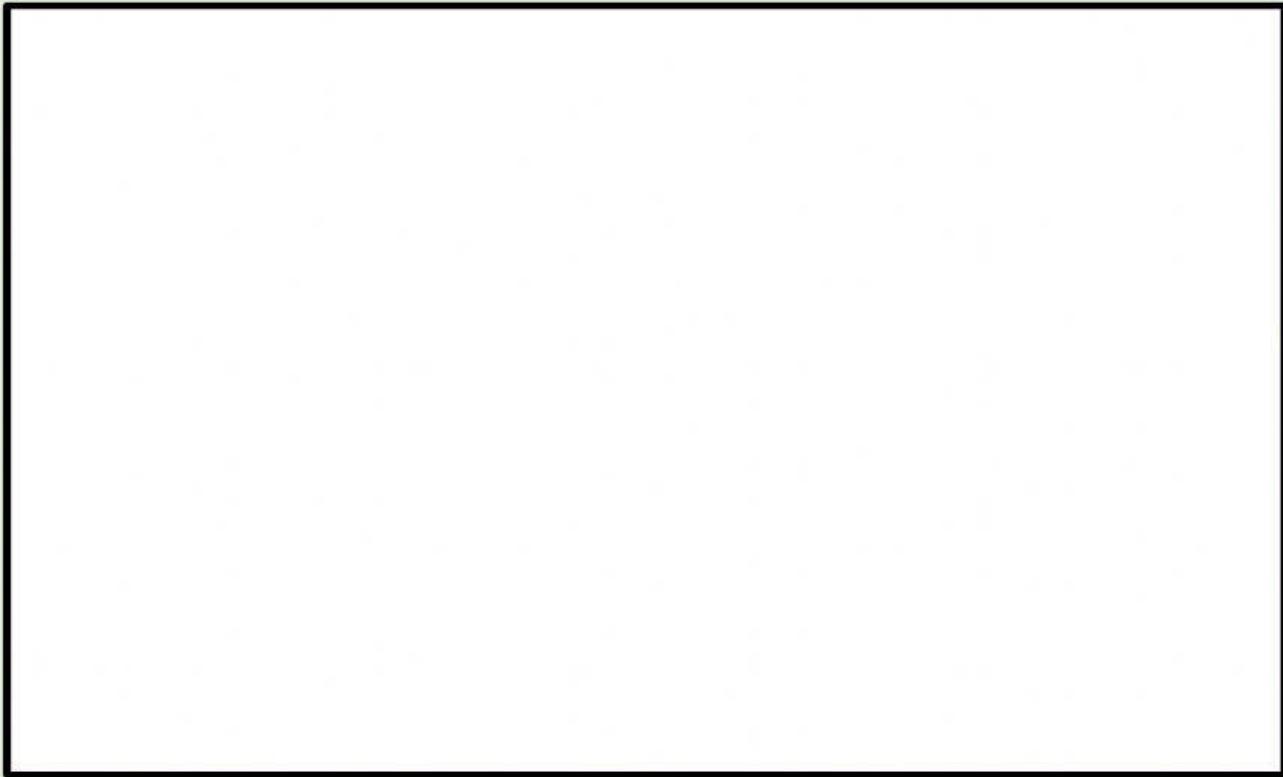
CLICK ON YELLOW ICON TO OPEN SOUND LAB!



Which one has higher frequency?



**WATCH THE VIDEO AND DETERMINE IF THE
SOUND IS HIGH OR LOW PITCH**



1. Tea kettle:
2. Timpani:
3. String bass:
4. Piccolo:
5. Lion roar:

6. Triangle:

7. Bear growl:

8. Whistle:

9. Witch cackle:

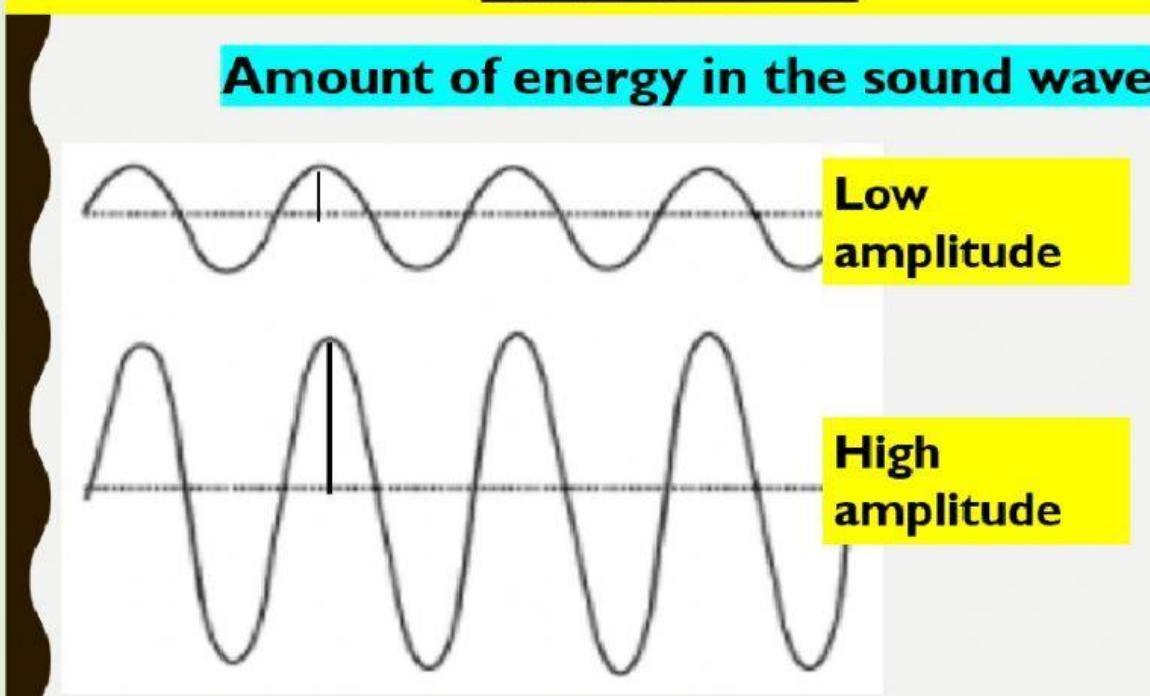
10. Tuba:

11. Chick:

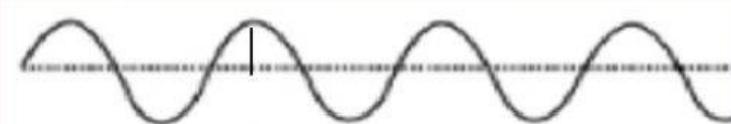
12. Pirate:

AMPLITUDE

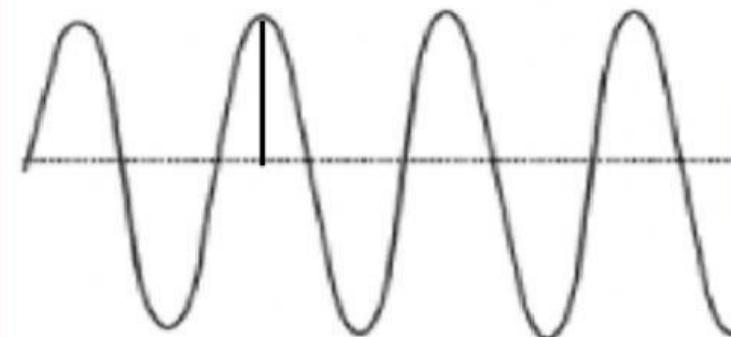
Amount of energy in the sound wave



LOUDNESS DEPENDS ON AMPLITUDE



Low amplitude-
QUIET SOUND



High amplitude-
LOUD SOUND

CLICK ON YELLOW ICON TO OPEN SOUND LAB



live input

Square

Sine

Sawtooth

Triangle

CLICK HERE

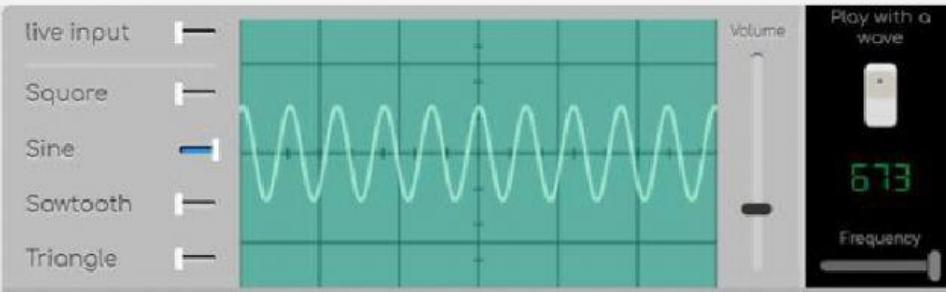
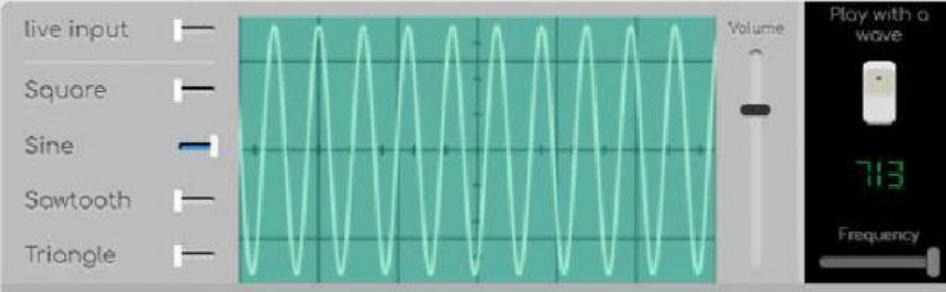
CHANGE VOLUME TO SEE HIGH AND LOW AMPLITUDE

Volume

Play with a wave

Frequency

Which one has higher amplitude?



Which one has low amplitude?

