



SCIENCE
CHAPTER 7- ENERGY
LESSON 2- SOUND
SOUND LAB



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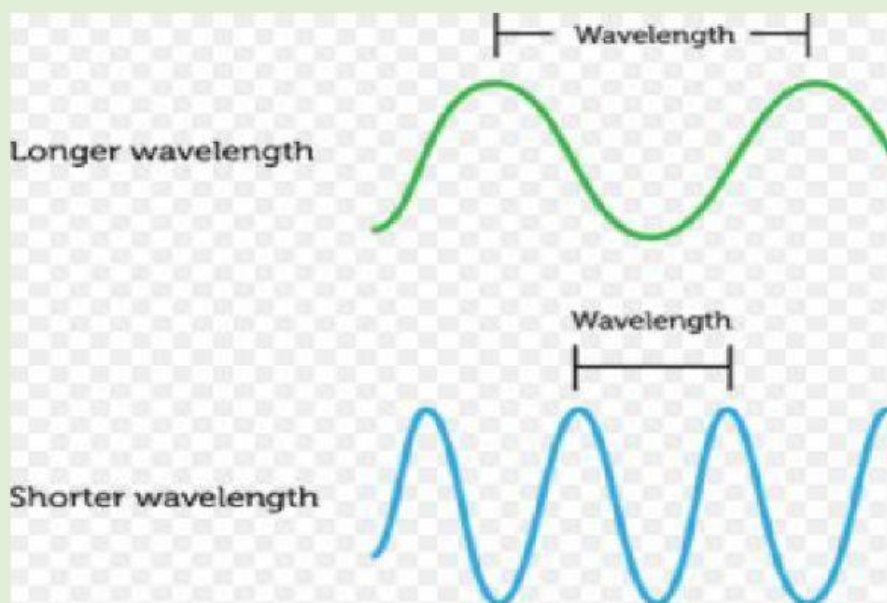
LAB BASED QUESTIONS



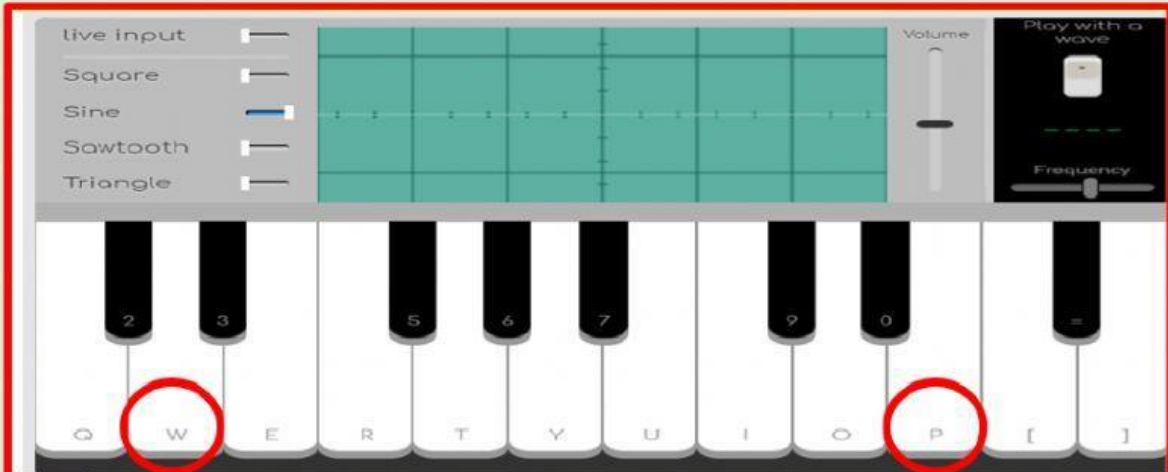
CLICK ON
YELLOW ICON
TO OPEN
VIRTUAL LAB

WAVELENGTH

It is the number of vibrations in one second



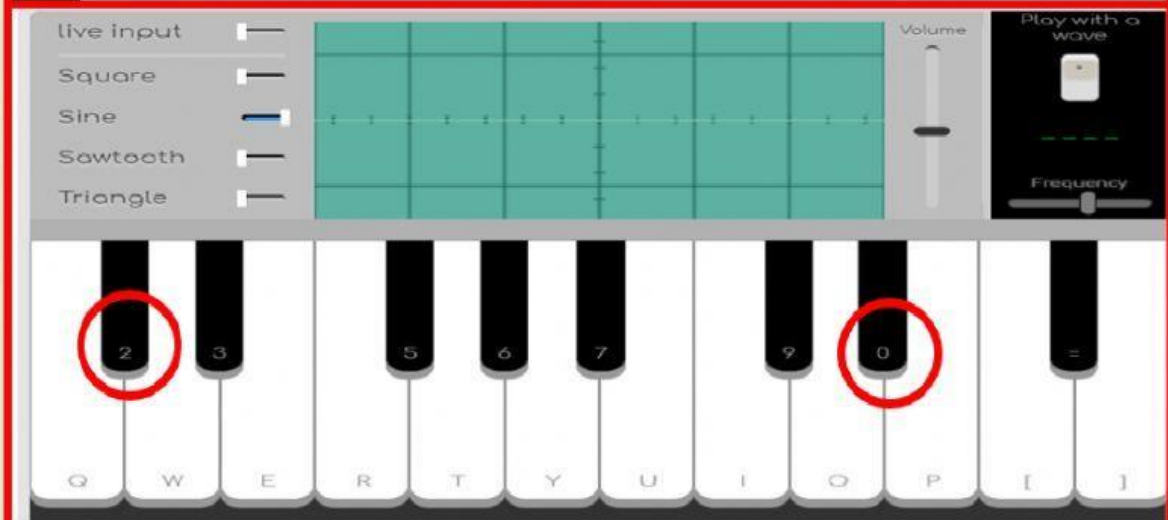
CLICK ON YELLOW ICON TO OPEN SOUND LAB



Which one has longer wavelength?

W

P



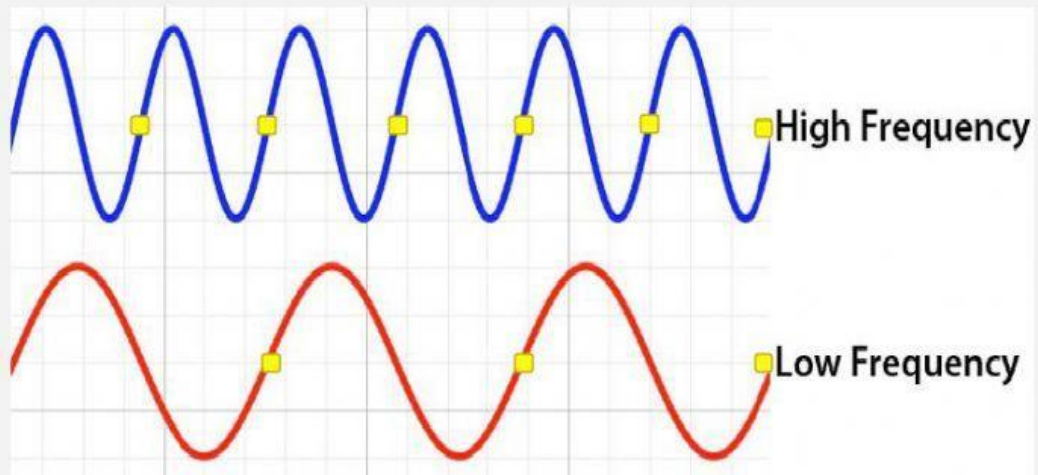
Which one has shorter wavelength?

0

2

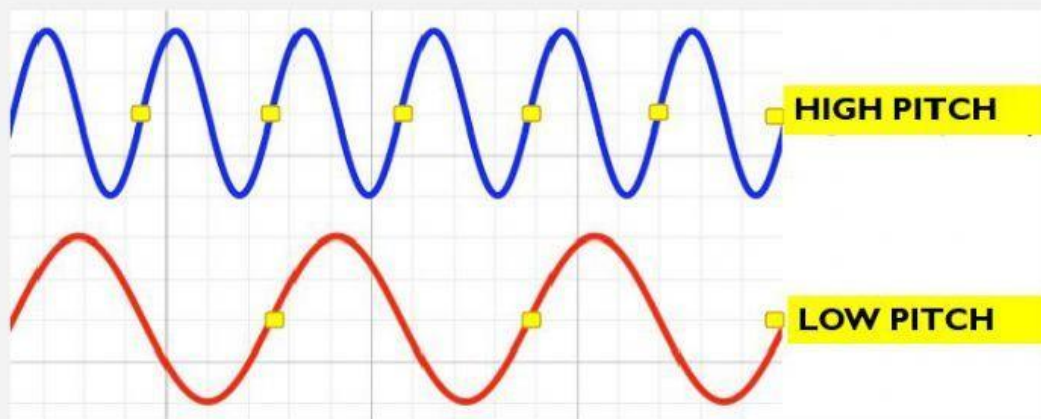
FREQUENCY

Number of waves in 1 second



PITCH depends on frequency

It is degree of highness or lowness of sound

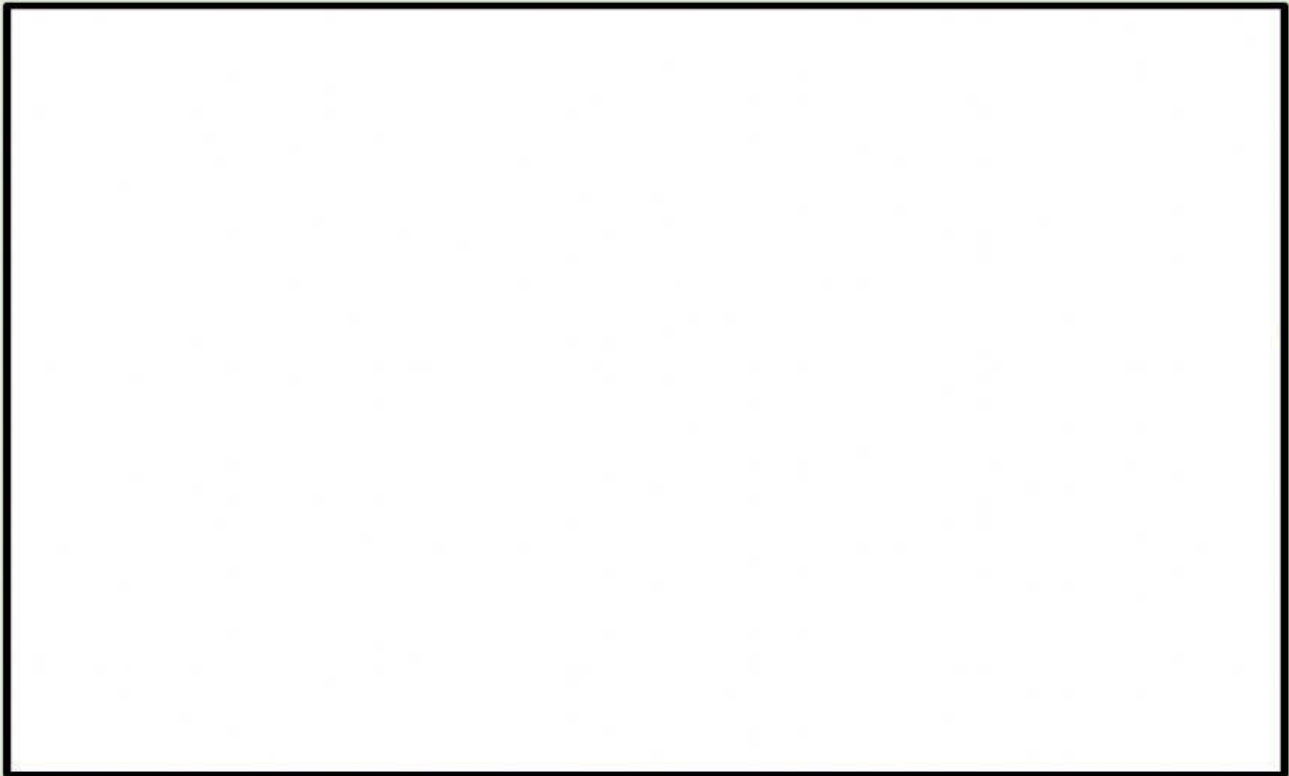


CLICK ON YELLOW ICON TO OPEN SOUND LAB |



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:

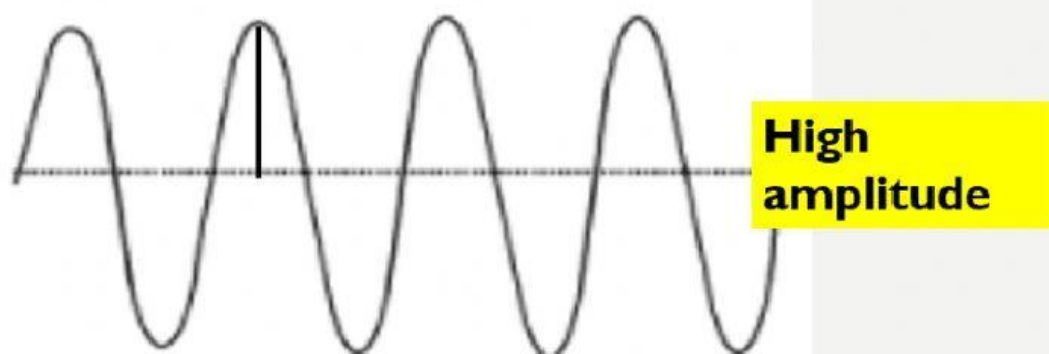
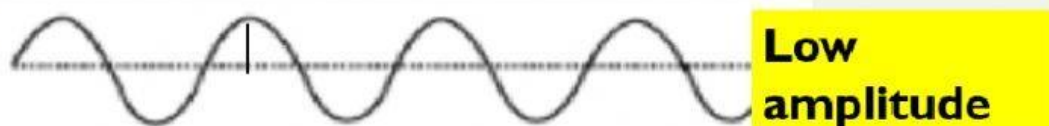
10. Tuba:

11. Chick:

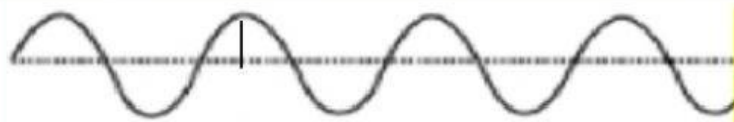
12. Pirate:

AMPLITUDE

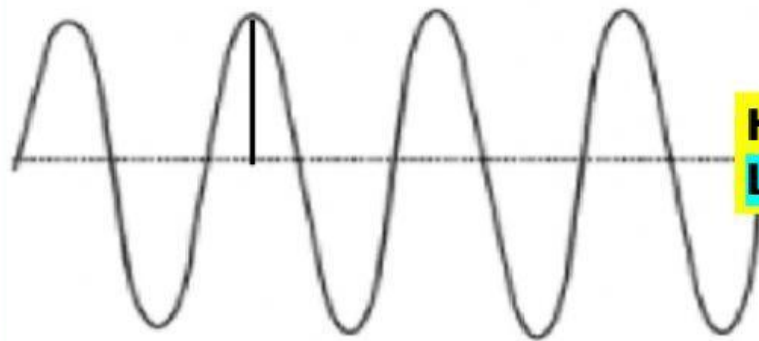
Amount of energy in the sound wave



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

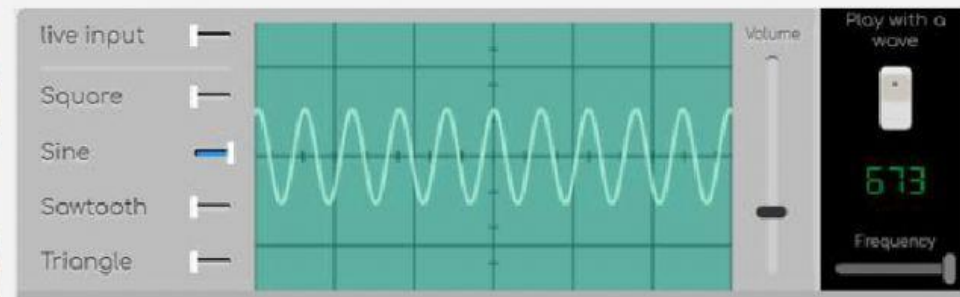
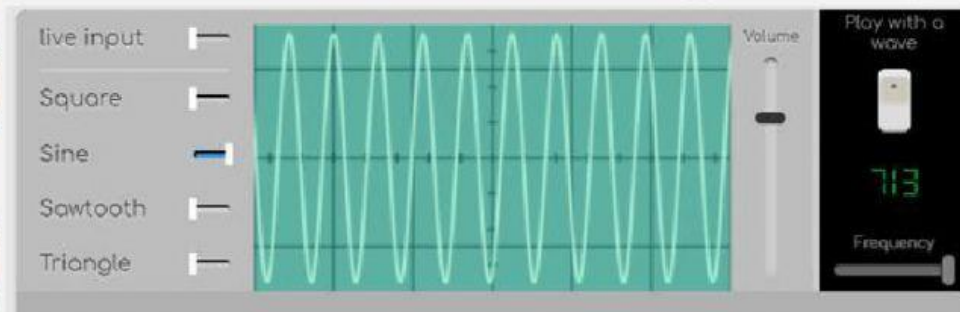
Play with a wave

Frequency

2 3 5 6 7 9 0 =

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

Which one has higher amplitude?



Which one has low amplitude?

