

# Task 15

Alef lesson

#88

Apply

Science Book  
Section

6.3

Science Book

Pages

229 - 230

## Properties of Sound Waves: Pitch

FULL NAME: \_\_\_\_\_

What is **pitch**?

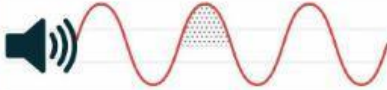
What kind of pitch do women usually have?

Why?

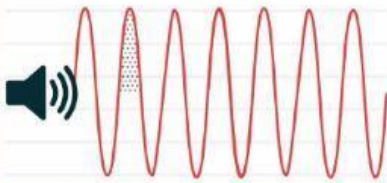
What kind of pitch do men usually have?

Why?

Low Frequency = Low Pitch



High Frequency = High Pitch



Their voices have a **low** range of frequencies.

Their voices have a **high** range of frequencies.

**lower** pitch

The perception we have of sound.  
How high or low a sound seems.

طَبَقَةُ الصَّوْتِ

**higher** pitch

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### Properties of Sound Waves: Speed

What does a sound wave  
need to **travel**?

What medium (matter)  
do sound waves  
**move slower** in?

1.

What **2** things affect the  
**speed**  
of a sound wave?

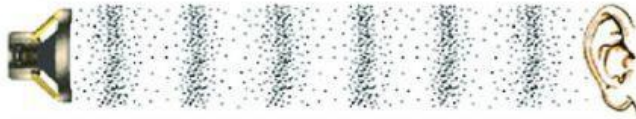
1.

2.

What medium (matter)  
do sound waves  
**move faster** in?

1.

2.



FULL NAME: \_\_\_\_\_

Temperature, Matter, and Sound Waves

Sound waves in gases ...

Higher temperature = \_\_\_\_\_

Why?

Sound waves in solids and liquids ...

\_\_\_\_\_ temperature = faster

Why?

At high temperatures, the particles move faster and collide (hit) more often..

they need a medium (matter)

gases

the medium

liquids

solids

the temperature

At low temperatures, the particles are closer together so sound moves quickly in a short distance.

lower

faster