



**Erasmus+ Programme – Strategic Partnership Project - STEM Education - 2018-1-IT02-KA229-048507**

Online Short-Term Exchange of Schools

11<sup>th</sup> – 15<sup>th</sup> May, 2021

Hosting organization in Brussels

Reves Network

Platform Microsoft Teams

**STEM SUBJECT: Physics**

**TOPIC: Sound**

**TEAM: Bulgaria**

**Sound quiz**

**Choose the correct answer:**

1. What type of waves are sound waves?
  - Water
  - **Longitudinal**
  - Transverse
2. What part of the ear collects sounds?
  - Eardrum
  - Ear canal
  - **Pinna**
3. In which does sound travel fastest?
  - Liquids
  - **Solids**
  - Gases
4. Above what frequency is ultrasound?
  - 10 000 Hz
  - 20 Hz
  - **20 000 Hz**
5. A student holds two vibrating objects. Object A is vibrating faster than object B. Which statement is true?
  - is louder than B
  - is louder than A
  - **will have a higher pitch than B**
  - will have a higher pitch than A
6. The average frequency range for human hearing is
  - 20-2000 Hz
  - 2000-20000 Hz
  - **20-20000 Hz**

7. This animal is most likely to communicate through infrasonic waves.

- Bat
- Fly
- **Elephant**
- Mouse

8. Sound waves of a lower frequency will likely travel farther than sound waves that have higher frequencies.

- True
- **False**

9. Sound waves are unable to travel in a...

- Solid
- Liquid
- Gas
- **Vacuum**

10. The number of wavelengths that pass a point each second

- **frequency**
- wavelength
- pitch
- amplitude

11. What does pitch depend on?

- amplitude
- **frequency**
- intensity
- volume of sound

• 12. What do we call the loud noise made by airplanes when they exceed the speed of sound?

- Sound boom
- Mach sound
- Sound blast
- **Sonic bloom**

13. What unit of measure is used to measure the loudness of sound?

- Voltage
- **Decibels**
- Joules
- Watts
- Amperes

14. Loud sounds over a long period of time can damage your hearing.

- FASE
- **TRUE**

15. The power carried by sound waves per unit area in a direction perpendicular to that area

- **Sound intensity**
- Sound amplitude
- Sound Frequency
- Sound Velocity

16. What medium does sound travel through slowest?

- gas
- solid
- liquid
- trees

17. High pitch sounds are caused by a \_\_\_\_\_ vibration

- fast
- slow
- hard
- soft

18. When a sound is louder what measurement gets bigger?

- Frequency
- Amplitude
- Wavelength
- Crest

19. How do we observe sound?

- tasting
- smelling
- hearing
- seeing

20. True or False: Volume is the same as intensity.

- false
- true

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