

Unit 2/ L 2

ST name:

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Q1: Put correct number of meaning near each type of energy:

1- Substance where sound can travels.

2- Wave that transfers energy through a material and spreads outward in all directions from a vibration.

3- Back and forth motion.

4- Devices used light from Sun to produce electricity.

5- Wave vibrating in the same direction that the energy moves.

A-(.....) Sound wave موجة صوت

B-(.....) Vibration اهتزازات

C-(.....) Medium الوسط

موجات طولية

D-(.....) Longitudinal wave

E-(.....) Solar cell خلية شمسية

Q2: Choose correct answer for each one:

1-Astronauts in space cannot talk to each other unless they use a radio to speak. Why is this?

a-The force of gravity is too strong to allow sound waves to travel.

b-There is no air in space, so there is no medium to carry sound waves.

c-It is very loud in space, so they can only hear each other through a radio.

2-To stop a drum from producing sound, you would:

a-Hit it harder

b- Hit it softer

c- Stop it from vibrating



3-Sound travel through outer space.

A- Does not

b-Does

4-How does sound energy travel?

a-in strings

b-in waves

c-in pulses

5- A pom-pom launcher صوت دوي القاذفة

a-Transfers kinetic energy to thermal energy.

b-Transforms kinetic energy to sound energy.

c-Transforms stored energy to energy of motion.



6- Why are sounds not heard in space? لماذا لا يُسمع الصوت في الفضاء؟

a-Space is too cold for sound to travel.

b- Energy cannot travel in space.

c- Space is a vacuum with few particles to travel through.

7-Light travels as tiny of energy

a- Particles

b-Pulses نبضات

8- Human can only see the on the electromagnetic spectrum.

a-Visible light

b-Ultraviolet

c-Microwaves

9- Solar cells are also called

a- Gamma ray

b- photovoltaic cell

10 -Different forms of radiation all together are known as the

a-Visible Light

b- Electromagnetic spectrum

c-Infrared



11 -A fire truck's siren and flashing lights are examples of ___ and ___ energy.

a-Heat and Nuclear

b-Light and sound

c-Chemical and Thermal

12- Form of energy that allows you to see objects is

a-Heat

b- Light

c- Sound

Q3: Arrange these items according to the speed of sound:



Juice

(.....)

Liquid



Steel Pan

(.....)

Solid



Wind

(.....)

Gas

Q4: Compare between Sound & Light : **قارن بين الصوت والضوء**

Choose correct answer for each: **اختر الإجابة الصحيحة لكل نقطة**

اختر الإجابة الصحيحة لكل نقطة	Sound	Light
Moving	a- Beams	b- Wave
Wave Type	a-Mechanical, Longitudinal waves. b-Electromagnetic, Transvers waves.	a-Mechanical, Longitudinal waves. b-Electromagnetic, Transvers waves
الوسط	a-need b-not need	a-need b-not need
Travels media	a-Solid b- Liquid c-Gas d- Vacuum	a- Solid b- Liquid c-Gas d- Vacuum