

## Unit 2/ L 2

ST name: ..... 41 .....

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

1- Substance where sound can travel.

موجة صوت A-(.....) Sound wave

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

اهتزازات B-(.....) Vibration

3- Back and forth motion.

الوسط C-(.....) Medium

موجات طولية

4- Devices used light from Sun to produce electricity.

D-(.....) Longitudinal wave

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

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 يسمع 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: Compere between Sound & Light :** قارن بين الصوت والضوء

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

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