Grade 4-Term 2 **Sound & Light** Ms. Arwa Al Messabi

Unit 2/ L 2 **ST name**: ..... 4\ .....

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

D-(.....) Longitudinal wave موجات طولية

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**

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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



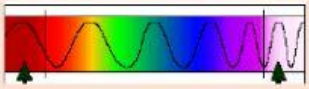
Wind

(……)

Gas

Q4: Compere between Sound & Light : قارن بين الصوت والضوء

Choose correct answer for each: اختر الإجابة الصحيحة لكل نقطة

اختر الإجابة 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 إجابة صحيحة	a-Solid b- Liquid c-Gas d- Vacuum	**a-** Solid b- Liquid c-Gas d- Vacuum

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