Grade 4-Term 2	So	und & 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 tr	A-() Sc	موجة صوتound wave				
	ransfers energy thro	D-() VI	اهتزازات bration				
spreads outwa	ard in all directions						
3- Back and fo	orth motion.	C-() Me					
4- Devices use	ed light from Sun to	ity. D-() Lo	موجات طولية Ongitudinal wave				
5- Wave vibratenergy moves	ting in the same dire	E-() S	خلية شمسية Solar cell				
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 so	und 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? ألماذا 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	نبضات b-Pulses			

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

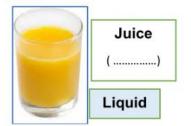
12- Form of energy that allows you to see objects is

a-Heat

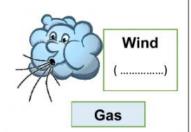
b- Light

c- Sound

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







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

Choose correct answer for each: اختر الإجابة الصحيحة لكل نقطة

فتر الإجابة الصحيحة لكل نقطة	-1	Sound		Light	
Moving	а	- Beams	b- Wave		c- Conduction
	h-Electromagnetic Transvers			a-Mechanical, Longitudinal waves. b-Electromagnetic, Transvers waves	
الوسط Media	a-need b-not need			a-need	b-not need
Travels media اختر كل إجابة صحيحة		a-Solid c-Gas	b- Liquid d- Vacuum	a- Solid c-Gas	b- Liquid d- Vacuum