

## Al Daher School Grade 8

newcentury

Name:	

## **Light Waves 1**

Key words	Translation	Write the key words
Vacuum	الفراغ	
Medium	الوسط	
Matter	المادة	
Electromagnetic	كهرومغناطيسي	
Energy	طاقة	
Wavelength	طول موجي	
Frequency	تردد	
Spectrum	طيف	

1- Compare between the (sound wave and light wave) by filling the table.

Can travel through matter only	Can travel through vacuum and matter

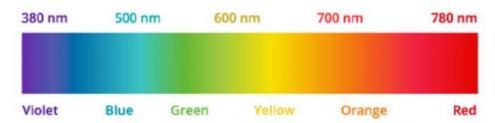
2- Complete this sentence.

Light is a type of waves called ...... waves.

- A. Mechanical
- B. Electromagnetic
- C. Transvers
- D. Longitudinal
- 3- In which of the following mediums the speed of the light is the largest?
  - A. Water
  - B. Air
  - C. Glass
  - D. Dimond

4- From the visible light spectrum fill the table below:

## Visible Spectrum



Description	The light color
The lowest light energy	
The highest light energy	
The shortest light wavelength	
The longest light wavelength	
The lowest light frequency	
The highest light frequency	

- 5- Which of the following lights has the largest energy?
  - A. The green light.
  - B. The red light.
  - C. The orange light.
  - D. The violet light.
- 6- Which of the following lights has the longest wavelength?
  - A. The violet light.
  - B. The Orange light.
  - C. The Yellow light.
  - D. The Blue light.
- 7- Which of the following lights has the lowest frequency?
  - A. The violet light.
  - B. The Orange light.
  - C. The Yellow light.
  - D. The Blue light.

	Green light - Blue lig	ght – Red light
	Green light blue lig	Site Red light
		t from the shortest wavelength to
the longest wa	velength.	
	Violet light – yellow lig	ght – green light
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10- In the visible s when we move		gure describe the changes in energ
when we move	to the right.	gure describe the changes in energence of the changes in energy in energ
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