تم تحميل هذا الملف من موقع المناهج الإماراتية

حل أسئلة اختبار تجريبي القسم الورقي منهج انسباير

موقع المناهج ⇦ المناهج الإماراتية ⇦ الصف الثامن ⇦ علوم ⇦ الفصل الأول ⇦ حلول ⇦ الملف

تاريخ إضافة الملف على موقع المناهج: 2024-11-25 16:48:09

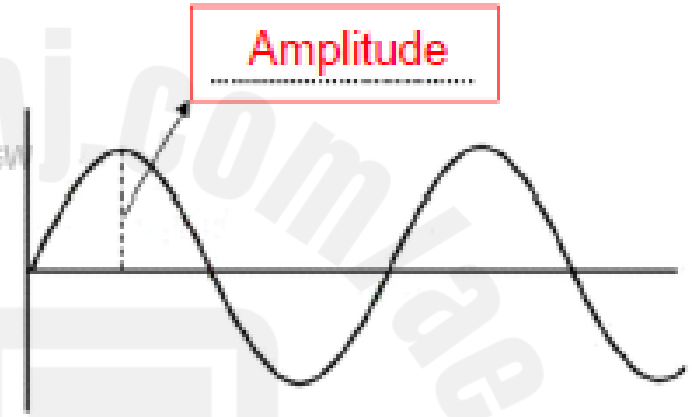
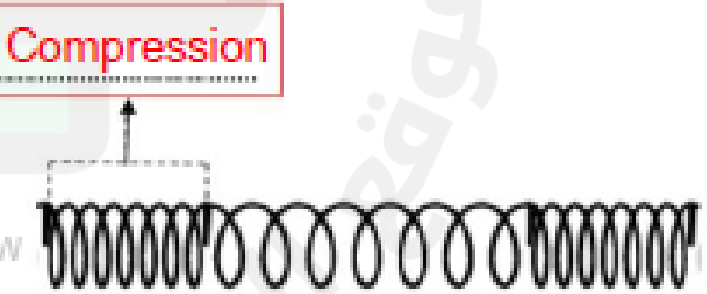
المزيد من مادة علوم:	ملفات ا كتب للمعلم ا كتب للطالب ا اختبارات الكترونية ا اختبارات ا حلول ا عروض بوربوينت ا أوراق عمل منهج انجليزي ا ملخصات وتقارير ا مذكرات وبنوك ا الامتحان النهائي ا للمدرس

التواصل الاجتماعي بحسب الصف الثامن

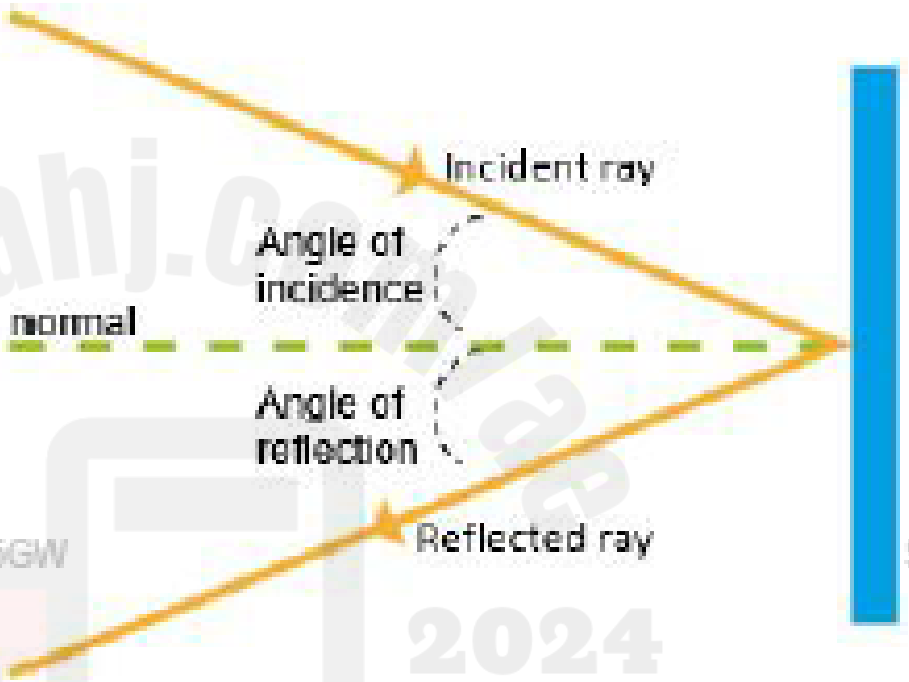
صفحة المناهج الإماراتية على فيسبوك					
المواد على تلغرام	التربية الاسلامية	اللغة العربية	اللغة الانجليزية	الرياضيات	

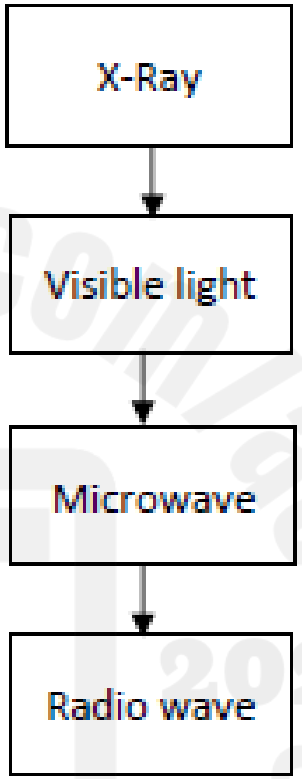
المزيد من الملفات بحسب الصف الثامن والمادة علوم في الفصل الأول

1	أسئلة اختبار تجريبي وفق الهيكل الوزاري منهج انسباير
2	أسئلة الامتحان النهائي منهج انسباير القسم الورقي العام 2023-2024
3	حل أسئلة الامتحان النهائي القسم الالكتروني والورقي العام 2023-2024
4	نموذج اختبار تجريبي وفق الهيكل الوزاري القسم الكتابي
5	نموذج اختبار تجريبي وفق الهيكل الوزاري القسم الالكتروني

12 Points Total		
Question 1	**Answer**	**Points**
a) i. Identify the type of mechanical wave shown in each diagram below. ii. Label the wave property indicated in each diagram.	Wave type: Transverse wave  Wave Type: Longitudinal wave  	4

b) What is meant by the frequency of a wave?	The number of times the pattern repeats in a given time.	2
c) What is meant by the wavelength of a wave?	The distance between one point on a wave to the same point on the next wave.	2
d) Explain why radio waves can travel through the vacuum of outer space but sound waves do not.	Because radio waves do not need matter to travel while sound waves need matter to travel through.	2
e) Explain why the speed of sound is greater in water than in air.	Water particles are closer to each other this make them collide more with each other and more energy can be transferred as a result sound waves travel faster in water.	2

6 Points Total		
Question 2	**Answer**	**Points**
a) The diagram below shows how light is reflected by a plane mirror. On the diagram below, label the following: the two types of angles, two types of rays and the location of the normal.		5
b) The angle of reflection of a light ray reflected by a plane mirror is 40°. Apply the law of reflection to find the angle of incidence.	40°	1

7 Points Total		
Question 3	**Answer**	**Points**
a) List the four parts of the electromagnetic spectrum stated above from shortest to longest wavelength.	Shortest wavelength  Longest wavelength	4
b) Which of the four stated parts of the electromagnetic spectrum has the most energetic photons?	X-Ray, because it has the highest frequency as it has the shortest wavelength.	3

7 Points Total		
Question 4	**Answer**	**Points**
a) A student claims that observer L2 will hear a higher pitched sound than observer L1. Do you agree with the student? Justify your answer.	Yes, I agree because the compression of the sound wave made by the vehicle is higher at L2 so the observer at L2 hears a higher pitched sound. Or Yes, I agree because the frequency is higher at L2 than the frequency in L1 which led to a higher pitched sound.	3
b) State the human hearing frequency range in hertz (Hz)	20 – 20000 Hz	2

c) Long term exposure to loud music can result in permanent hearing loss. Using the information in the figure below, state in decibels (dB) the level above which sustained exposure can cause permanent hearing loss.	90 and above	2

8 Points Total		
Question 5	**Answer**	**Points**
a) Explain what happens when an antenna absorbs radio waves.	Radio waves passes the radio antenna and electron in the metal vibrate and produce a changing electric current that contains the information about the music and words. Or Radio waves exert force on the electrons in a receiving antenna causing the electron to vibrate. The radio then filters out the carrier wave and convert the signal to a sound wave for listeners to hear.	3

b) State 3 differences between radio waves and gamma rays	1. Radio waves have a longer wavelength than gamma rays. 2. Radio waves have a lower frequency than gamma rays. 3. Radio waves have a lower photon energy than gamma rays.	3
c) i. Explain what happens to X-rays when they enter the body and encounter soft tissues.	X-Ray pass through soft tissue	1
ii. Explain what happens to X-rays when they enter the body and encounter dense bones.	Dense bones absorb X-Ray.	1