تم تحميل هذا الملف من موقع المناهج الإماراتية





حل أسئلة الامتحان النهائي منهج انسباير المسار المتقدم

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

تاريخ إضافة الملف على موقع المناهج: 11-17-22:29:53

ملفات اكتب للمعلم اكتب 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

المزيد من مادة || علوم:

التواصل الاجتماعي بحسب الصف الثامن











صفحة المناهج الإمار اتية على فيسببوك

5

الرياضيات

اللغة الانجليزية

اللغة العربية

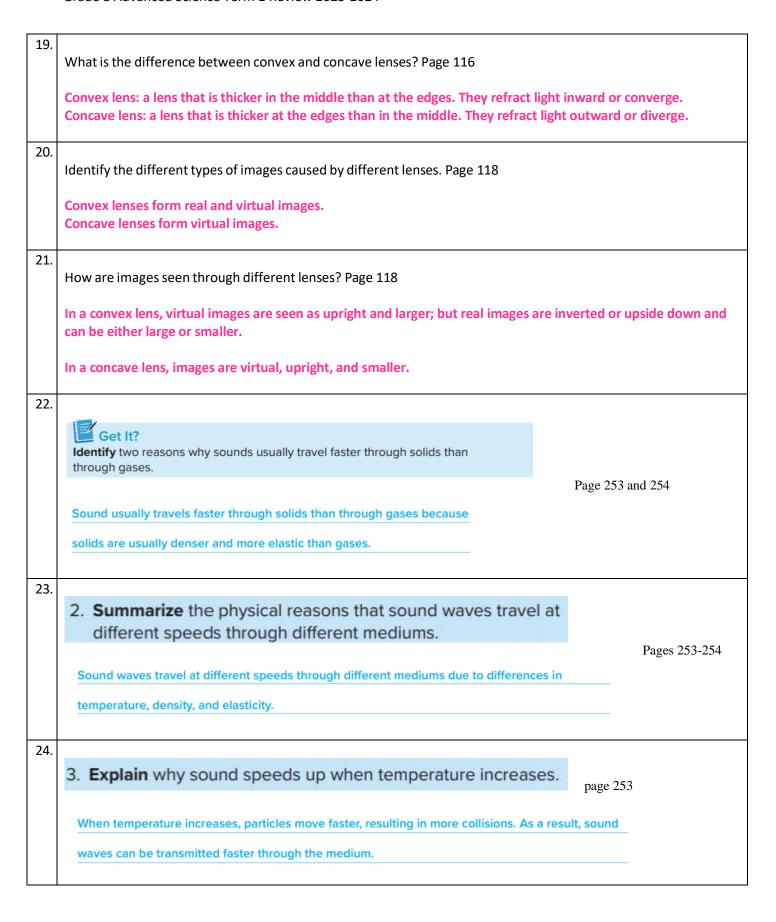
التربية الاسلامية

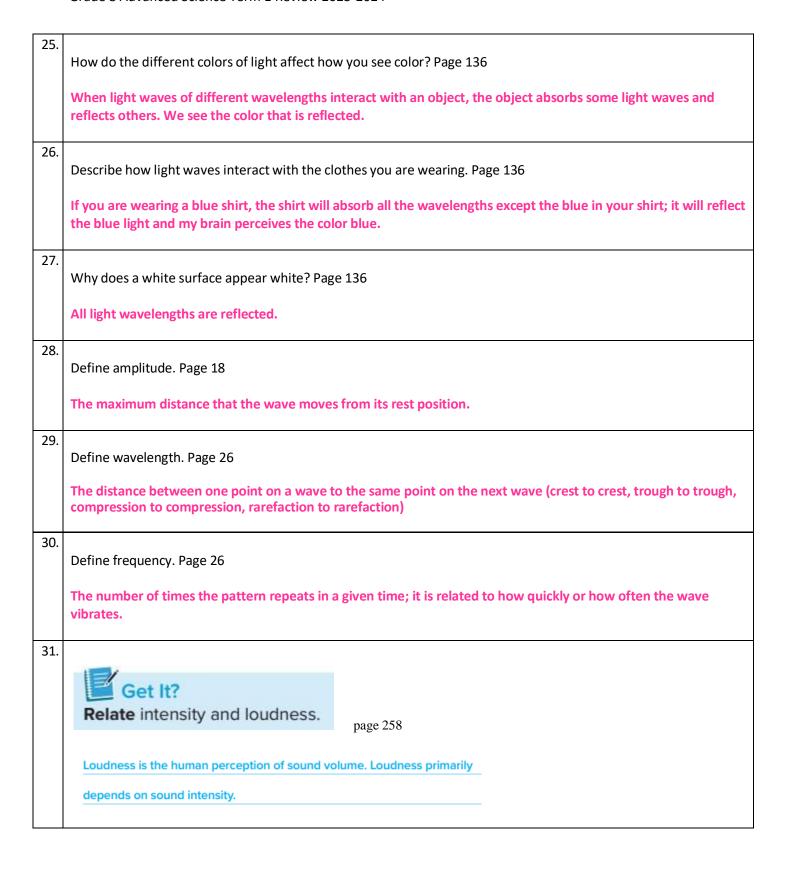
المواد على تلغرام

المزيد من الملفات بحسب الصف الثامن والمادة علوم في الفصل الأول أسئلة الامتحان النهائي منهج انسباير المسار المتقدم 1 حل أسئلة مراجعة الوحدة الرابعة الكهرباء والمغناطيسية 2 ملخص الدرس الثالث المغناطيسية من الوحدة الرابعة متبوع بحل الأسئلة 3 ملخص الدرس الثاني التيار الكهربائي والدوائر الكهربائية من الوحدة الرابعة متبوع بحل الأسئلة 4 ملخص الدرس الأول الشحنات والقوى الكهربائية من الوحدة الرابعة متبوع بحل الأسئلة

1.	How does light reflect off rough surfaces? Page 100
	The rays reflect in different directions.
2.	Explain the difference between regular reflection and diffuse reflection. Page 100
	Regular reflection: the reflection of light from a smooth, shiny surface Diffuse reflection: reflection of light from a rough surface
3.	Identify the different types of reflection. Page 100
	Regular and diffuse reflection
4.	What is compression in longitudinal waves? Page 14
	The sections of a longitudinal wave where particles in the medium are closest together.
5.	What is rarefaction in longitudinal waves? Page 14
	The regions of a longitudinal wave where the particles are farthest apart.
6.	Describe the movement of the longitudinal wave. Page 14
	A longitudinal wave causes the particles in a medium to move parallel to the direction the wave travels.
7.	14. Compare and contrast music and noise. page 263
	Music is any collection of sounds that are used in a regular pattern.
	Noise has random patterns and pitches.
8.	17. Explain how two musical notes that have the same pitch and volume could sound very different from each other. page 264
	Each instrument has a unique sound quality. Sound quality describes the differences between sounds of the same pitch and loudness. Sound quality results from overtones.
9.	What is a beat? Page 268
	A beat is a variation in loudness produced by the interference of two waves with different frequencies.

10.	How does the source of a wave change the shape of the wave? Page 26 and 27
	If the source carries a lot of energy, then the amplitude and frequency of the wave will increase, and the wavelength will decrease. Thus, changing the shape of the wave. If the source carries little energy, then the amplitude and frequency will decrease, and the wavelength will increase. Thus, again changing the shape of the wave.
11.	What do different sound pitches have in common? Page 260
	Each sound pitch has a distinct frequency.
12.	What is the relationship between frequency and sound pitch? Page 30
	A higher frequency produces a higher pitch, and a lower frequency produces a lower pitch.
13.	Define virtual image. Page 93
	An image that forms from light rays that diverge or change direction.
14.	Explain how light reflects off a plane mirror. Page 92
	Light rays that strike a plane mirror reflect at the same angle at which they strike the mirror. Light bounces off of you strikes the glass and bounces back to your eye.
15.	State the law of reflection. Page 92
	The angle of reflection is equal to the angle of incidence.
16.	Describe how your eyes detect color. Page 133
	Cone cells in the retina enable your eyes to detect color. Each type of cone cell responds to a different range of wavelengths which means each type of cone cells sends different signals to the brain.
17.	In green light, red color appears page 136
	Black
18.	What property of light allows you to see different colors? Page 129
	Wavelength

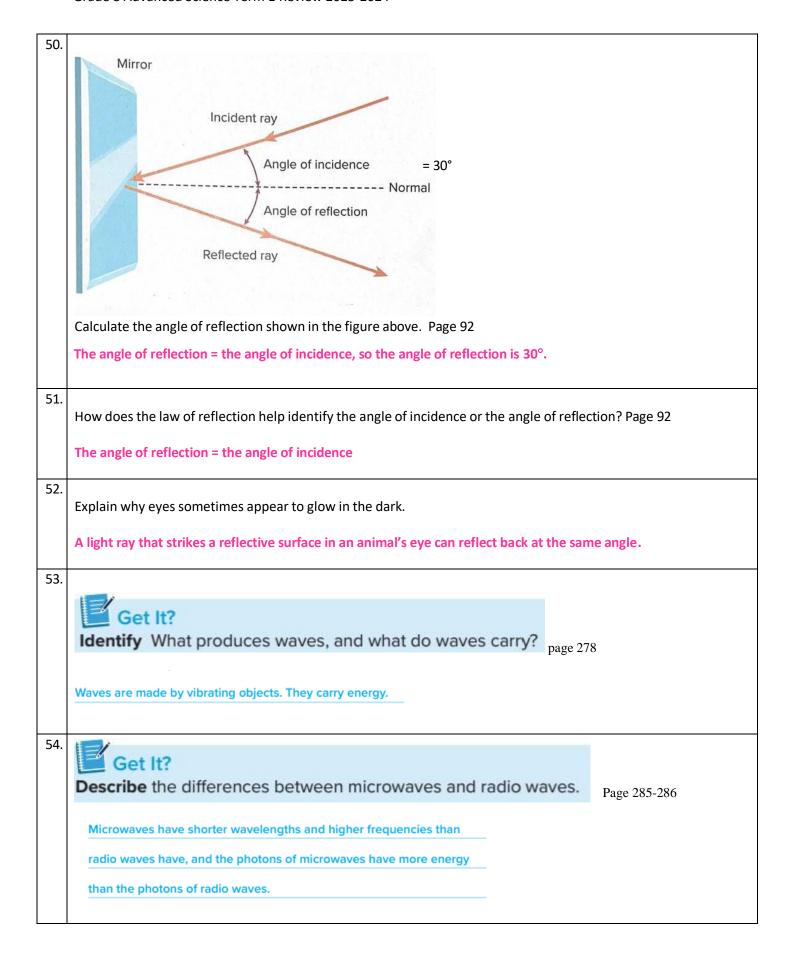




32.	
	8. Determine which will change if you turn up a radio's volume: wave velocity, intensity, pitch, frequency, wavelength, loudness. Explain. pages 258-260
	Intensity and loudness will change. Loudness is the human perception of sound volume. Loudness depends primarily on sound intensity.
33.	11. Draw and label a diagram that explains the Doppler effect. page 261
	(lower pitch) (higher pitch) (higher pitch) Observer Source Source Observer Sound is softer.
34.	Define focal length. Page 96
	The distance along the optical axis from the mirror to the focal point.
35.	Explain how a concave lens can be used to start a fire. Page 121
	A concave lens cannot start a fire because the lens diverges the light and the sun's light will not focus on the paper.
36.	What is refraction? Page 112
	The change in direction of a wave as it changes speed while moving form one medium to another
37.	Transmission can be defined as page 43
	The passing of a wave through a medium
38.	The definition of absorption is page 43
	The transfer of energy by a wave to the medium that it travels through

39. Describe the behavior of sound as it travels from one room to another. Page 43 As sound travels from one room to another, the sound is transmitted, absorbed and reflected. 40. In what way does energy affect a wave? Page 20 If the energy in a wave increases, then the amplitude will increase. If the energy in a wave decreases, then the amplitude of the wave will decrease. This affects the intensity and loudness of the wave. The more energy, the greater the intensity and the loudness. The lower the energy, the lower the intensity and loudness. 41. How does the amplitude of the wave relate to its energy? Page 20 If the energy in a wave increases, then the amplitude will increase. If the energy in a wave decreases, then the amplitude of the wave will decrease. 42. Define intensity. Page 23 The amount of sound energy that passes through a square meter of space in one second. 43. Identify what makes the eardrum vibrate. **Energy from sound waves** 44. Explain how sound travels from your vocal cords to your friend's ears when you talk. Vocal cords vibrate. These vibrations are transferred to the air as sound waves. The sound waves travel to your friend's ears. 45. Explain why sound would travel more slowly in cork than in water, page 254 Although cork is a solid and water is a liquid, cork is full of pockets of air, and is less dense overall than water. Because the particles in cork are farther apart on average, sounds travels more slowly in cork than in water.

46.	Identify the different type	s of mechanical wa	ves and their properti	ies. Page 13	
	Composed of cres	sts and troughs	the direct the wave to crest or trough to		
	Composed of com	oressions and rare		e wave travels. on or rarefaction to rarefaction.	
47.	Explain the relationship be As the frequency of the w wavelength increases.			cy of a wave. Page 26 s. As the frequency of the wave decreases,	, the
48.	The astronauts are sound waves, radi	e in outer spac	e where sound	waves cannot travel. Unlike	
49.	How does sound change Sound travels faster thro farther apart in gases. sound travels slowest	ugh solids and slov		e the particles are closer together in solids	and
	gas	liquid	solid		
	particles are	particles are	particles are		
	farthest apart	than in a gas	than in a liquid		
		man in a gas	utan in a liquiu		



55.



Describe the steps by which a microwave oven heats food.

page 286

The vibrating electric field in the microwave oven makes water

molecules rotate back and forth. Friction between the molecules

generates thermal energy, which heats the food.

56.



Compare the effects on matter caused by the absorption of electromagnetic radiation of different wavelengths.

page 287

Sample answer: Light or longer wavelength radiation is generally

converted to thermal energy. Shorter wavelengths can ionize atoms

and cause damage to living cells.

57.

Compare and contrast the properties and uses of radio waves, infrared waves, and ultraviolet waves.

All are electromagnetic waves. radio waves: long wavelengths, low frequencies, used for

communications, MRI, radar; infrared waves: long wavelengths, low frequencies, used for thermal

imaging; ultraviolet waves: short wavelengths, high frequencies, used in forensics, purification

Observer

Sound is softer.

58. Compression A Compression A Compression B Figure 10 The Doppler effect occurs when the source of a sound wave is moving relative to a listener. Explain why the flagger will hear a lower-pitched sound once the car passes him. page 261 The wave compressions that reach the flagger's ear are more spread out once the car passes the flagger. 59. Get It? Describe the Doppler effect. page 261 Wave frequency changes when the wave source moves relative to the observer. 60. 11. Draw and label a diagram that explains the Doppler effect. page 261 Lower frequency Higher frequency (lower pitch) (higher pitch) Sound is louder

Observer

61.

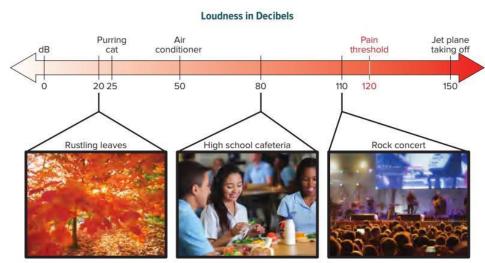


Figure 8 The volumes of different sounds are often measured in decibels. Identify where a normal speaking voice would fall on the decibel scale.

page 259

A normal speaking voice would be about 60 dB.

62.

 MATH Connection Use scientific notation to express the range of wavelengths corresponding to visible light, ultraviolet waves, and X-rays.

visible light: 4.0×10^{-7} to 7.0×10^{-7} m; ultraviolet: 1.0×10^{-8} to 4.0×10^{-7} m; X-rays: 1.0×10^{-11} to 1.0×10^{-8} m

63.

14. Identify and describe the steps that a radio station uses to broadcast sounds to your radio receiver.

Sounds at the radio station are converted into an electrical signal. This signal causes electrons in the broadcast antenna to vibrate. The vibrating electrons produce electromagnetic waves, which travel outward. The electromagnetic wave encounters a radio receiver antenna. The electric and magnetic fields of the wave cause the electrons in the receiver antenna to vibrate. The vibrating electrons provide the electrical signal that the radio converts back into sound.

64.

15. Explain the difference between AM and FM radio. Make a sketch of how a carrier wave is modulated in AM and FM radio signals.

	For AM, amplitude is modulated. For FM, frequency is modulated. Students' sketches sh
	resemble Figure 19.
65.	
	16. Describe what happens to your signal when you are talking on a cell phone and you travel from one cell to another cell.
	A central controller transfers your signal to the base station in the new cell.