22	2 Which statement about transverse or longitudinal waves is not correct?	
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	Α _	Longitudinal waves can be used to demonstrate diffraction.
	В	Longitudinal waves can travel in a vacuum.
	С	Transverse waves can form stationary waves.
	D	Transverse waves can transfer energy.
23	Δ α	lass tube is closed at one end and has a loudspeaker at the other end.
23	Αу	·
		glass tube
		loudspeaker
		stationary wave is formed with a node at the closed end of the tube when the sound has quency f_0 . There are no other nodes.
	The	e frequency of the sound is then slowly increased.
	Wh	at is the frequency of the sound that produces the next stationary wave?
	A	1.25 f_0 B 1.50 f_0 C 2.00 f_0 D 3.00 f_0
24	Wit	h which waves can the Doppler effect be observed?
	Α	all waves including sound and light
	В	light waves only
	С	sound and light waves only
	D	sound waves only
25	Which radiation could consist of waves of wavelength 0.5 nm?	
	Α	γ-rays
	В	ultraviolet
	С	visible light
	D	X-rays