

28 A light wave passes through a single slit and a diffraction pattern forms.

What happens to the frequency and the speed of the wave when it is diffracted?

	frequency	speed
A	decreases	increases
B	increases	decreases
C	no change	decreases
D	no change	no change

24 Which row is correct for sound waves?

	can travel in a vacuum	can be polarised	can diffract through a gap
A	no	no	yes
B	yes	no	no
C	no	yes	no
D	no	yes	yes

26 For a progressive transverse wave, what describes the term diffraction?

- A** the change in observed frequency of a wave due to a movement of the wave source
- B** the spreading of a wave as it passes through a gap or around an obstacle
- C** when oscillations of a wave are confined to one plane
- D** the resultant displacement of two waves is equal to the sum of the displacements of the individual waves when the waves meet