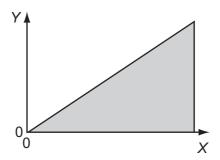
22 The graph shown was plotted in an experiment on a metal wire.



The shaded area represents the total strain energy stored in stretching the wire.

How should the axes be labelled?

	Y	X
Α	force	extension
В	mass	extension
С	strain	energy
D	stress	strain

23 Nylon breaks when the stress within it reaches 1 x 10 9 Pa.

Which range includes the heaviest load that could be lifted by a nylon thread of diameter 1 mm?

- **A** 2N to 20N
- **B** 20 N to 200 N
- C 200 N to 2000 N
- **D** 2000 N to 20000 N
- 24 Which observation indicates that sound waves are longitudinal?
 - A Sound can be reflected from a solid surface.
 - **B** Sound cannot be polarised.
 - **C** Sound is diffracted around corners.
 - **D** Sound is refracted as it passes from hot air to cold air.