

TRANSVERSE AND LONGITUDINAL WAVES-SET-2

1

Which of these waves is longitudinal?

- A** infra-red
- B** radio
- C** sound
- D** water

MS-1

C

2

Which row shows an example of a transverse wave and an example of a longitudinal wave?

	transverse	longitudinal
A	light	radio
B	radio	sound
C	sound	water
D	water	light

MS-2

B

3

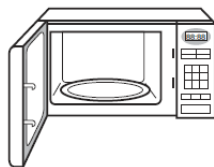
Which waves are longitudinal?

A



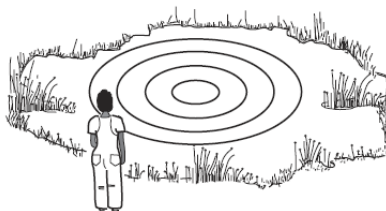
light waves
from a lamp

B



microwaves
in an oven

C



water waves
on a pond

D



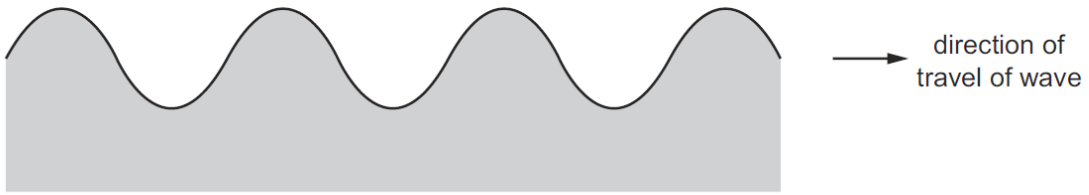
sound waves
from a trumpet

MS-3

D

4

The diagram shows a side view of a water wave at a particular time. The diagram is drawn full size.



Which statement about the wave is correct?

- A** The wave is longitudinal and the frequency can be measured from the diagram.
- B** The wave is longitudinal and the wavelength can be measured from the diagram.
- C** The wave is transverse and the frequency can be measured from the diagram.
- D** The wave is transverse and the wavelength can be measured from the diagram.

MS-4

D

5

Which row correctly defines a type of wave and gives a correct example?

	wave type	direction of vibrations	example
A	longitudinal	parallel to direction of wave travel	radio waves
B	longitudinal	perpendicular to direction of wave travel	light waves
C	transverse	parallel to direction of wave travel	light waves
D	transverse	perpendicular to direction of wave travel	radio waves

MS-5

D

6

A man is talking at the side of a house. He can be heard by a woman at the front of the house even though she cannot see him.



What is the explanation for this?

- A** Sound waves are longitudinal and light waves are transverse.
- B** Sound waves are transverse and light waves are longitudinal.
- C** The sound waves have a long wavelength and the light waves have short wavelength.
- D** The sound waves have a short wavelength and the light waves have long wavelength.

MS-6

C

7

Which description applies to infra-red radiation?

- A** longitudinal and electromagnetic
- B** longitudinal but not electromagnetic
- C** transverse and electromagnetic
- D** transverse but not electromagnetic

MS-7

C