

**22** Visible light, X-rays and microwaves are all components of the electromagnetic spectrum.

Which statement about the waves is correct?

- A** In a vacuum, microwaves travel faster than visible light and have a shorter wavelength than visible light.
- B** In a vacuum, microwaves travel at the same speed as visible light and have a shorter wavelength than visible light.
- C** In a vacuum, X-rays travel faster than visible light and have a shorter wavelength than visible light.
- D** In a vacuum, X-rays travel at the same speed as visible light and have a shorter wavelength than visible light.