



Waves - quick fire questions

This worksheet is fully supported by a video tutorial; <https://youtu.be/AEFwEDC6DkQ>

1. Sketch and label a transverse wave.
2. Sketch and label a longitudinal wave.
3. Define amplitude.
4. Define wavelength.
5. What is equation linking time period and frequency?
6. What are the units for time period?
7. What are the units for frequency?
8. What is equation linking wave speed, frequency and wavelength?
9. What are the units for wavelength?
10. What are the units for wave speed?
11. What is order of the electromagnetic waves?
12. What can radio-waves be used for?
13. What can microwaves be used for?
14. What can infrared be used for?
15. What can visible light be used for?
16. What can ultraviolet be used for?
17. What can gamma rays be used for?
18. What can x-rays be used for?

Higher tier only

19. What happens when a wave is diffracted?
20. What happens when a wave is refracted?
21. Why does refraction happen?
22. Which surfaces absorb radiation?
23. Which surfaces emit radiation?

Physics only

24. What image is formed by converging lens?
25. When can converging lens be used?
26. When should a diverging lens be used?
27. What image is formed by diverging lens?
28. How do you calculate magnification?
29. What are the units for magnification?
30. What is the order of light in the visible spectrum?



31. What does opaque mean?
32. What does transparent mean?
33. What does translucent mean?
34. What happens to light when it passes through a filter?

Higher tier only

35. How do sound waves travel?
36. What is the range of human hearing?
37. What is the P-wave?
38. What is an S-wave?