Light

1. How does light travel?

2. Give 2 examples which demonstrate that light travels faster than sound.

   i.

   ii.

3. What do we call materials which allow ALL light to be transmitted through them?

4. What do we call materials which allow SOME light to be transmitted through them?

5. What do we call materials which allow NO light to be transmitted through them?

6. Name 2 things that happens to the light that is not transmitted.

   i.

   ii.

7. What are the two types of wave?

   i.

   ii.

8. What do waves transfer?

9. What is a wavelength?

10. What is the amplitude of a wave?

11. What is the frequency of a wave?

12. Why can't we see our face in a white piece of paper?

13. What can be said about the angle of incidence and the angle of reflection if a plane (flat) mirror has light shone upon it?

14. Why does the speed of light change by a tiny amount when light hits the edge of a glass block?

15. What do we call this change in direction?

16. What is the difference between the shape of a convex lens and the shape of a concave lens?

17. Which of these two types of lens focuses light?

18. What is the coloured part of the eye called?

19. What job does this part do?

20. What is the name of the layer of cells at the back of the eye?

21. If the lens in our eye is long and thin in shape, what does this allow us to do?

22. What type of lens is used to correct short-sightedness?

23. What are the seven colours of the spectrum?

    i.

    ii.

    iii.

    iv.

    v.

    vi.

    vii.

24. What colour of light has the shortest wavelength?

25. What colour(s) of light are absorbed by blue shorts?

26. What colour(s) of light are reflected by blue shorts?

27. What colour will a red object look if only blue light is shone on it? Explain your answer.