Light

Waves 3.4.2 | Part 1, usually Year 7 | 20 quick questions

KS3 science quick questions

Answer online, marked instantly

Activate 1: Light | Exploring Science 8J

Name: _____ **Date:** _____ **Score:** _____ **/ 20**

1 A candle flame gives out its own light. What word describes objects like this?

2 A wooden door blocks all light, so you cannot see through it. What word describes a material like this?

3 Clear window glass lets nearly all light through so you can see through it. What word describes it?

4 Frosted bathroom glass lets light through, but you cannot see clearly through it. What word describes it?

5 Light bounces off a mirror. What is this called? Answer in one word.

6 A ray of light hits a mirror with an angle of incidence of 35°. What is the angle of reflection?

7 Angles at a mirror are measured from an imaginary line at right angles to the mirror. What is this line called?

8 A straw in a glass of water looks bent because light changes direction as it passes from water into air. What is this called?

9 Which triangular block of glass can split white light into a spectrum of colours?

10 Which type of lens is thicker in the middle and bends light rays towards each other?

11 When white light passes through a prism, which colour bends the most?

12 Which layer at the back of the eye contains the cells that detect light?

13 White light shines through a red filter. What colour of light comes out the other side?

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14 A leaf looks green because it reflects green light. What does it do to the other colours? Answer in one word.

15 A ray of light goes from air into water, which is a denser material. Does it bend towards the normal or away from the normal?

Year 9 stretch

16 A blue T-shirt is lit only by red light. What colour does the T-shirt look?

17 Light travels about 300 000 km every second. Sunlight takes about 500 s to reach Earth. Roughly how far away is the Sun? Give your answer in km.

18 Rosa is short-sighted. Her eyes bring light rays together too strongly, so far-away things look blurred. Which type of lens, convex or concave, do her glasses need?

19 In a pinhole camera, is the image on the screen the right way up or upside down?

20 A book does not give out any light. Explain how you can still see it in a lit room.

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