

Nova's Brilliant Light Quiz

Learning objective: To identify that light is needed to see, recognise that light is reflected from surfaces, and understand how shadows are formed.

Read each question carefully. Choose the best answer or write your answer in the space provided. Join Nova the owl as we investigate the wonders of light!

Answer Key: 1. A (Sun); 2. True; 3. Light source; 4. B (Shiny); 5. False; 6. Opaque; 7. C (The light is blocked); 8. True; 9. Pupil; 10. False (We need light to see).

Word bank: Light source · Reflection · Shadow · Opaque · Transparent · Translucent · Sun

1. 1. Which of these is a natural light source? A) The Sun* B) A mirror C) A book D) The Moon (1 mark)

2. 2. True or False: We cannot see anything in total darkness. (1 mark)

3. 3. What do we call an object that gives off its own light, like a torch or a candle? (1 mark)

4. 4. Which surface is best at reflecting light? A) A piece of wool B) A shiny metal spoon* C) A dusty floor D) A brown leaf (1 mark)

5. 5. True or False: Shadows are formed when light passes through an object. (1 mark)

6. 6. What word describes an object that light cannot pass through at all? (1 mark)

7. 7. Why does a shadow change size? A) The object grows B) The light changes colour C) The distance between the light source and the object changes* D) The ground moves (1 mark)

8. 8. True or False: Glass is a transparent material. (1 mark)

9. 9. What part of your eye lets light in so you can see? (1 mark)

10. 10. True or False: Mirrors create their own light. (1 mark)

Draw: Draw a diagram showing a torch shining light onto a shiny mirror, and show how the light bounces off the mirror. Label the 'light source' and the 'reflection'.



Extension challenge: Nova asks: If you were in a completely dark room with a mirror, could you see your reflection? Explain your answer using what you know about light sources.