

Name \_\_\_\_\_ Class \_\_\_\_\_ Date \_\_\_\_\_

1 Write S (for sound) or L (for light) next to each of these statements.

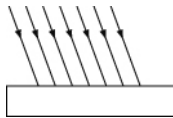
- |  |  |
|--|--|
| a can travel through empty space _____ | d travels at 300 000 000 m/s in air _____    |
| b travels at 330 m/s in air _____      | e can travel through all solid objects _____ |
| c transverse wave _____                | f longitudinal wave _____                    |

2 Draw lines to match the words to their meanings.

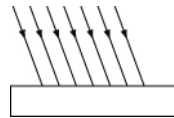
absorbed	a material that lets light pass through without scattering
transparent	a material that scatters the light passing through it
transmitted	when light bounces off a material
translucent	when light passes through a material
reflected	a material that light cannot pass through
opaque	when light is taken into a material

3 Complete these diagrams to show what happens when light hits different materials.

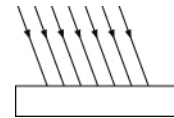
a opaque



b transparent



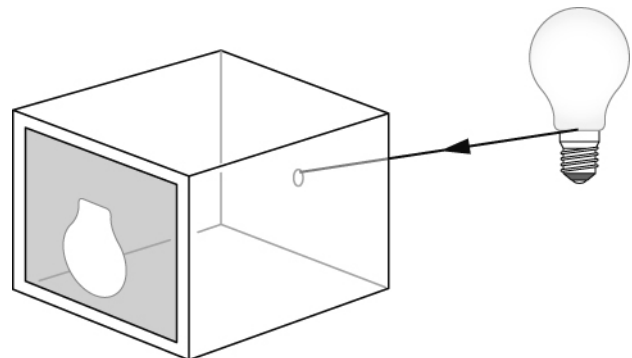
c translucent



4 a Label the pinhole camera using words from the box.

image      pinhole      screen

b Draw lines to show how the image is formed. One line has been started for you.



**I can...**

- compare light and sound waves
- describe what can happen to light when it hits different surfaces
- describe how a pinhole camera works.