Waves

1 Match the words to the descriptions.

These objects do not make their own light. We see them because they reflect light. The Moon and planets are this.

Objects that do not transmit light, such as walls, trees and humans.

It is a light source.





non-luminous

reflected

Sun

opaque 3

These objects are sources of light. They make their own light.
Stars are this.

This travels in straight lines. Its speed is

300 000 000 m/s.

Light that has bounced off an object is....

2 Look at these objects.



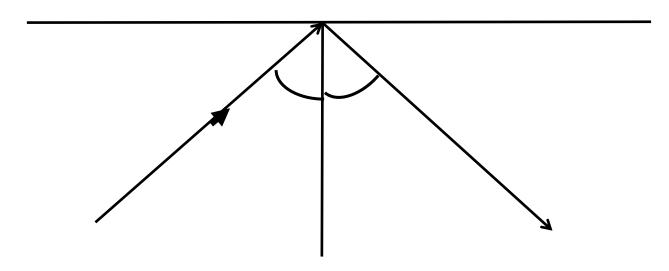
- a Which are luminous objects? Colour them in yellow.
- **b** Which are non-luminous objects? Shade them in grey.
- c Which objects are opaque? Circle them in green.
- **d** Which objects are transparent? Circle them in red.

Waves

Reflection and ray diagrams

Watch the clip - https://www.youtube.com/watch?v=V0Z_nk5JS_E

Label the diagram below and state the rule for reflection on a smooth surface like a mirror.



	Ke	ey words	
mirror	incident ray	angle of incidence	reflected ray
	angle of refle	ection normal	

Rule of Reflection
The rule for reflection on a smooth surface is

Questions

1	A clear image of the light bulb is seen on the white surface if there is specular reflection. State the surface(s) that gave specular reflection.
2	You cannot see a clear image if there is diffuse reflection. State the surface(s) that gave diffuse reflection.