

How Are Shadows made?

Pretend to be a beam of light, making sure you follow the no.1 rule, you can only move in a straight line. What happens when you meet an obstacle? You have to stop, and you can't go any further! This is exactly what happens to light when it is blocked by an **opaque** object. Hold your hand up in the Sun and look at the shadow. Your hand is **opaque**, it blocks the light because the light cannot shine through it. The darkness we call a shadow is simply the area the light cannot reach because your hand is in the way! Can you explain this below using a labelled diagram? Here are the words you will need:

Light source, Opaque object, Beam of light, Shadow

Remember, you can use any light source you like in your diagram, it doesn't have to be the Sun, and you can use any solid, opaque object to block the light and make a shadow.

This is my diagram to show how shadows are made -