

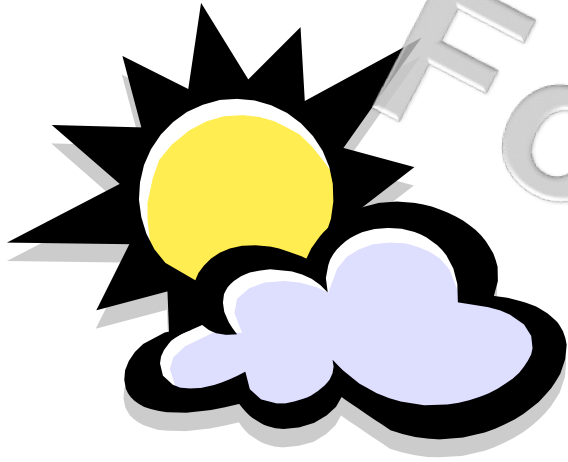


# Shadows

For Preview Only

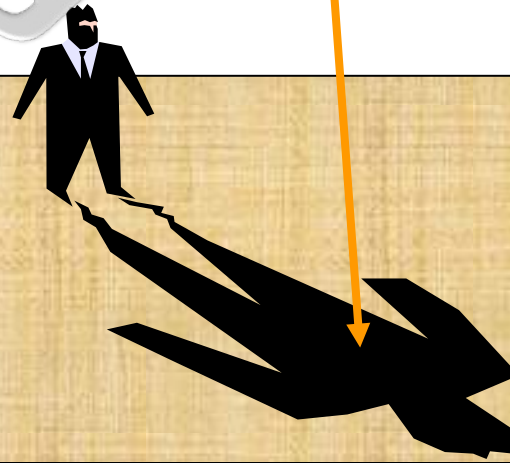
Light travels from a light source.  
Shadows are formed when the light is blocked by an object.

# Light can be Blocked



The light from the sun is blocked by the man. A shadow is formed as the light cannot travel through the man.

Any object that doesn't let light pass through is **opaque**.



Click to reveal



An object that creates a shadow is called **opaque**. This means that light does not travel through it.





An object that lets light pass through it is called **transparent**. These objects are seen through and will not create a solid shadow.



What will happen here? Will there be a shadow? Where will the shadow appear?

Click to reveal

Opaque wood

Transparent glass

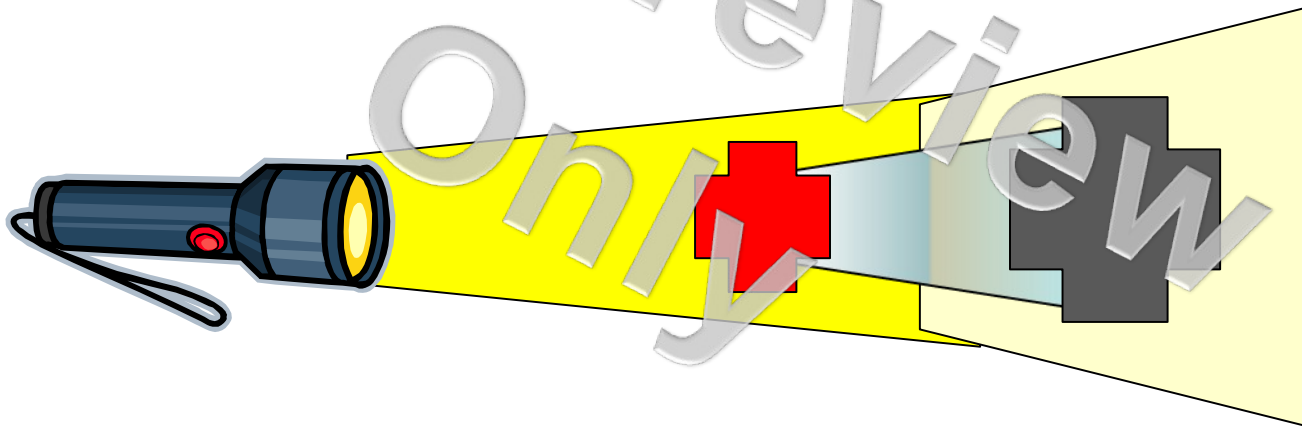


A shadow is formed!

No shadow is formed as the glass is transparent!

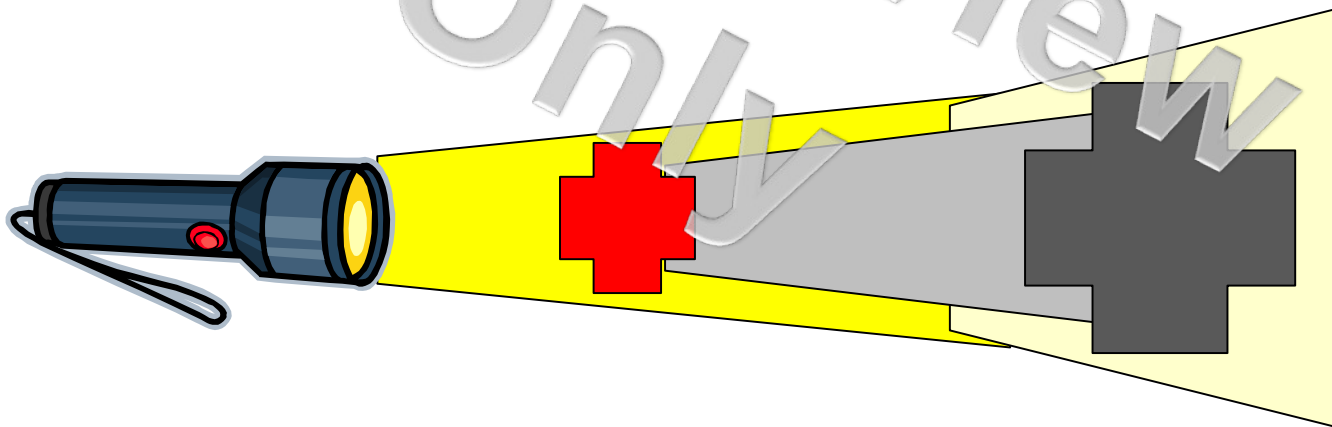


The shadow formed will always be the same shape as the object which formed it.





Shadows can be made bigger by moving the object nearer the light source, or by moving the screen further from the object.





Shadows can be made smaller by moving the object away from the light source, or by bringing the screen closer.

