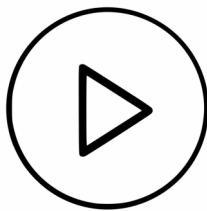
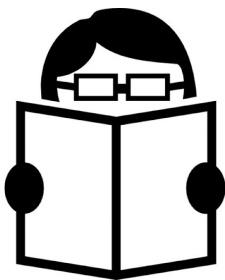


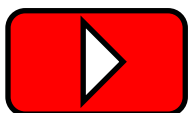
# Science

## Year 6

### Light



Instructions: These notes contain links to videos, tasks, experiments and interactive questions. When pressing these buttons a new browser window is launched with new contents. When ready close the web browser and continue where you left.



# Light

**Luminous and non luminous objects:** Some objects produce light. These are called luminous objects. Some examples are the sun, light bulbs, fire and stars. Objects which does not produce light are called non-luminous (or illuminated) objects. To see these objects they must be illuminated by light.

## Luminous and Illuminated Objects

A luminous object is one that produces light.

An illuminated object is one that reflects light.

*Luminous Objects*

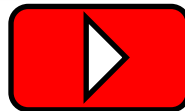
*Illuminated Objects*



# Luminous objects



# Non- Luminous objects



Click button to watch video.

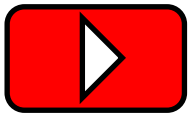


Click button to answer some questions



Light can pass through some materials. These materials are called **transparent**. Example of transparent materials are glass, some plastics and water.

Some materials block all light. These materials are called **opaque**. Example of opaque materials are rocks, metals and wood.



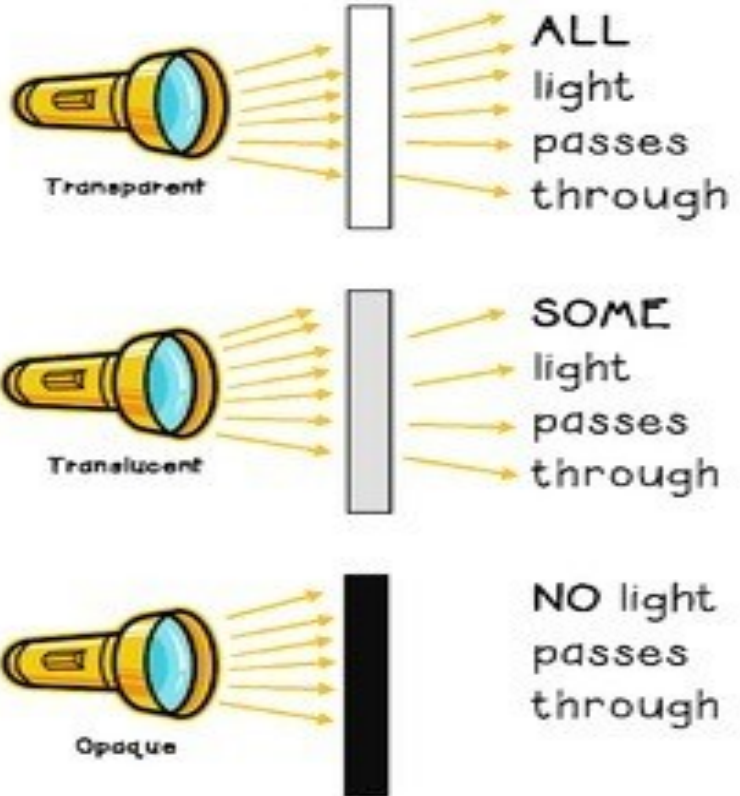
Click to watch video

Questions

Questions

Click to answer some questions.

### Translucent, Transparent & Opaque



Some materials are **translucent**. Translucent materials partially allow light to pass through. Example of translucent materials are tracing paper and frosted glass.

Opaque



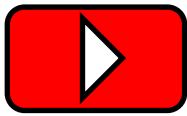
Translucent



Transparent



Light rays always move in straight lines. Light cannot bend around an object. This is the reason why shadows are formed.



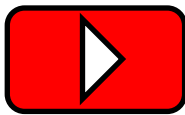
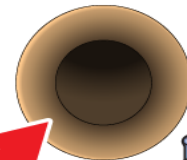
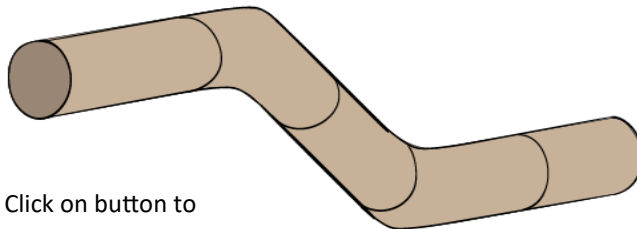
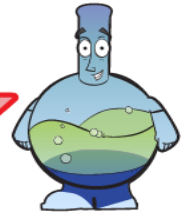
Click on button to watch video.

## How Light Travels



Objective: to recognise that light appears to travel in straight lines.

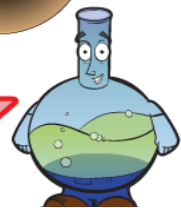
Question: When you look through a straight cardboard tube, you can see the candle?



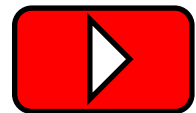
Click on button to watch video.

**Keywords:**  
light, dark, straight line, light source

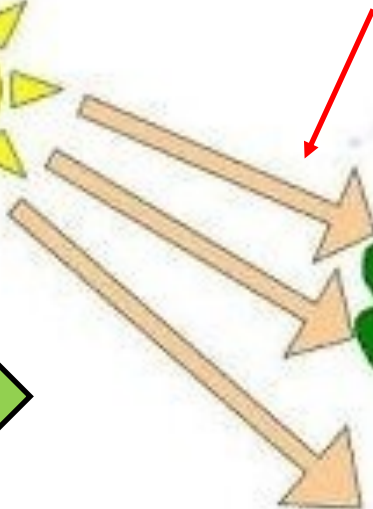
Question: When you look through a bent cardboard tube you can't see the candle. Why is this?



Light rays move in straight lines. We draw light rays as lines with arrows.



Click on button to watch video.



*Rays of light*

Light rays are blocked by the tree. Therefore behind the tree there is less light and is darker. This is a shadow.



Try this experiment at home. Report back.

