Date:

What materials block light and make a shadow?

Aim: See what type of materials make a shadow.

Equipment:

Cardboard box White paper or cardboard Torch/flashlight Modelling clay Binder clips A selection of objects made from various materials such as plastic, wood, paper, cardboard, glass, metal and cloth.



Method:

1) Cut a hole in one end of the cardboard box just big enough to hold the torch without letting in any daylight. You can use modelling clay to hold it in place and to fill the gaps if necessary.

2) Fix the white paper or cardboard to the inside of the other end of the box with modelling clay (opposite the torch position.)

4) Place the box in a darkened room and turn on the torch/flashlight lamp. Place an item between the light and the white paper screen. (Use the binder clips to attach items like paper, cloth lunch wrap, foil etc.) Make sure the lamp light is shining directly on the item.

5) See if the object blocks the light. Record your results. Repeat for other items.

6) Create a table to show your results. Write a statement about what you found out.